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Drinking Water Surveillance Program

# BRANTFORD WATER TREATMENT PLANT

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# BRANTFORD
# WATER TREATMENT PLANT

## DRINKING WATER SURVEILLANCE PROGRAM

## ANNUAL REPORT 1989

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# EXECUTIVE SUMMARY

## DRINKING WATER SURVEILLANCE PROGRAM

## BRANTFORD WATER TREATMENT PLANT
## 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The Brantford Water Treatment Plant is a conventional treatment plant which treats water from the Grand River. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. Powdered Activated Carbon is used for taste and odour control when necessary. This plant has a design capacity of 113.6 x 1000 $m^3$/day and serves a population of approximately 75,000.

Water samples from the raw and treated water at the treatment plant and from two distribution system sites were taken on a monthly basis. The Brantford Water Supply was sampled for the presence of approximately 180 parameters monthly during 1989. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analyzed in June and November only.

A summary of results is shown in Table A.

The ODWO of 10 µg/L for selenium was exceeded in one treated water sample. The District Officer was notified.

All other Inorganic and Physical parameters were below their respective health related ODWOs.

Samples were analyzed monthly for the presence of approximately 110 Organics. Levels did not exceed any health related ODWOs.

During 1989, the DWSP sampling results indicated that the Brantford Water Supply produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP

SUMMARY TABLE BY SCAN

| | SCAN | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TESTS | POSITIVE | %POSITIVE | TESTS | POSITIVE | %POSITIVE | TESTS | POSITIVE | %POSITIVE | TESTS | POSITIVE | %POSITIVE |
| | BACTERIOLOGICAL | 36 | 33 | 91 | 36 | 5 | 13 | 33 | 10 | 30 | 36 | 16 | 44 |
| | CHEMISTRY (FLD) | 36 | 36 | 100 | 66 | 62 | 93 | 116 | 107 | 92 | 132 | 120 | 90 |
| | CHEMISTRY (LAB) | 252 | 234 | 92 | 252 | 223 | 88 | 390 | 372 | 95 | 444 | 428 | 96 |
| | METALS | 287 | 184 | 64 | 286 | 167 | 58 | 492 | 303 | 61 | 539 | 343 | 63 |
| | CHLOROAROMATICS | 168 | 0 | 0 | 168 | 0 | 0 | 140 | 1 | 0 | 154 | 0 | 0 |
| | CHLOROPHENOLS | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | PAH | 191 | 1 | 0 | 190 | 0 | 0 | . | . | . | . | . | . |
| | PESTICIDES & PCB | 407 | 0 | 0 | 408 | 1 | 0 | 288 | 1 | 0 | 322 | 0 | 0 |
| | PHENOLICS | 12 | 12 | 100 | 11 | 11 | 100 | . | . | . | . | . | . |
| | SPECIFIC PESTICIDES | 65 | 0 | 0 | 57 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | VOLATILES | 348 | 0 | 0 | 348 | 44 | 12 | 319 | 40 | 12 | 348 | 43 | 12 |
| TOTAL | | 1814 | 500 | | 1834 | 513 | | 1788 | 834 | | 1986 | 950 | |

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

# DRINKING WATER SURVEILLANCE PROGRAM

# BRANTFORD WATER TREATMENT PLANT
# 1989 ANNUAL REPORT

## INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated at the Brantford Water Treatment Plant in March of 1987. An Annual Report was published for 1987 and 1988 (ISSN 0840-5344).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

## PLANT DESCRIPTION

The Brantford Water Treatment Plant is a conventional treatment plant which treats water from the Grand River. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. Activated silica is added as a coagulant aid; powdered activated carbon is used for taste and odour control when required; sulphur dioxide is used as a dechlorinator and ammoniation is used to produce a long-lasting chloramine residual (combined chlorine residual) in the distribution system. Lime is added for pH adjustment. This plant has a design capacity of 113.6 x 1000 $m^3$/day and flows for day of sampling ranging from 53.3 x 1000 $m^3$/day to 64.0 x 1000 $m^3$/day. The plant serves a population of approximately 75,000.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

## SAMPLING AND ANALYSES

Plant operating personnel perform analyses on parameters for process control (Table 1).

Water at the Brantford Water Treatment plant was sampled for approximately 180 parameters monthly in 1989. The Specific

# FIGURE 1

## DRINKING WATER SURVEILLANCE PROGRAM

## SITE LOCATION MAP

## BRANTFORD WATER TREATMENT PLANT

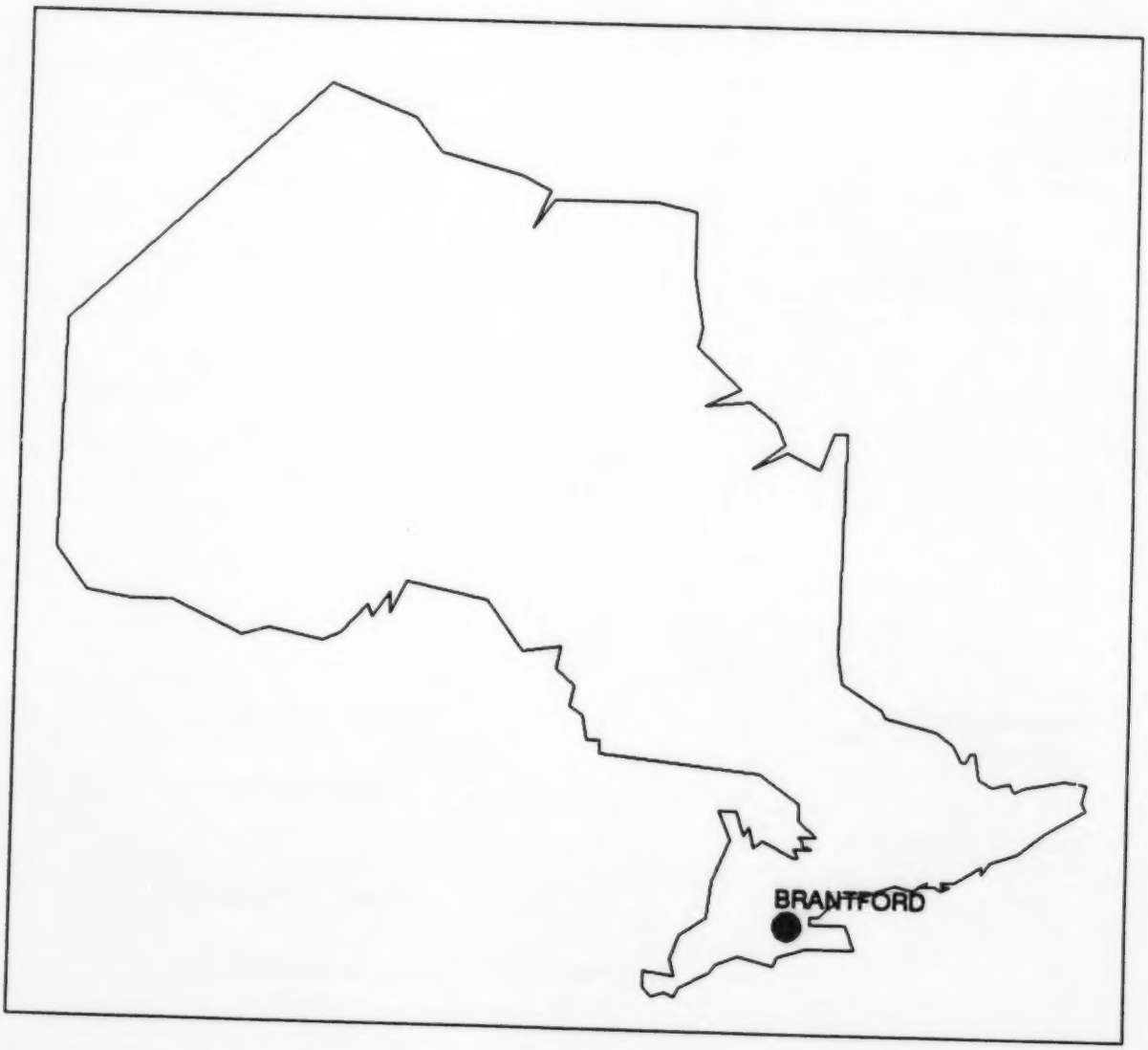

FIGURE 2

# BRANTFORD WTP

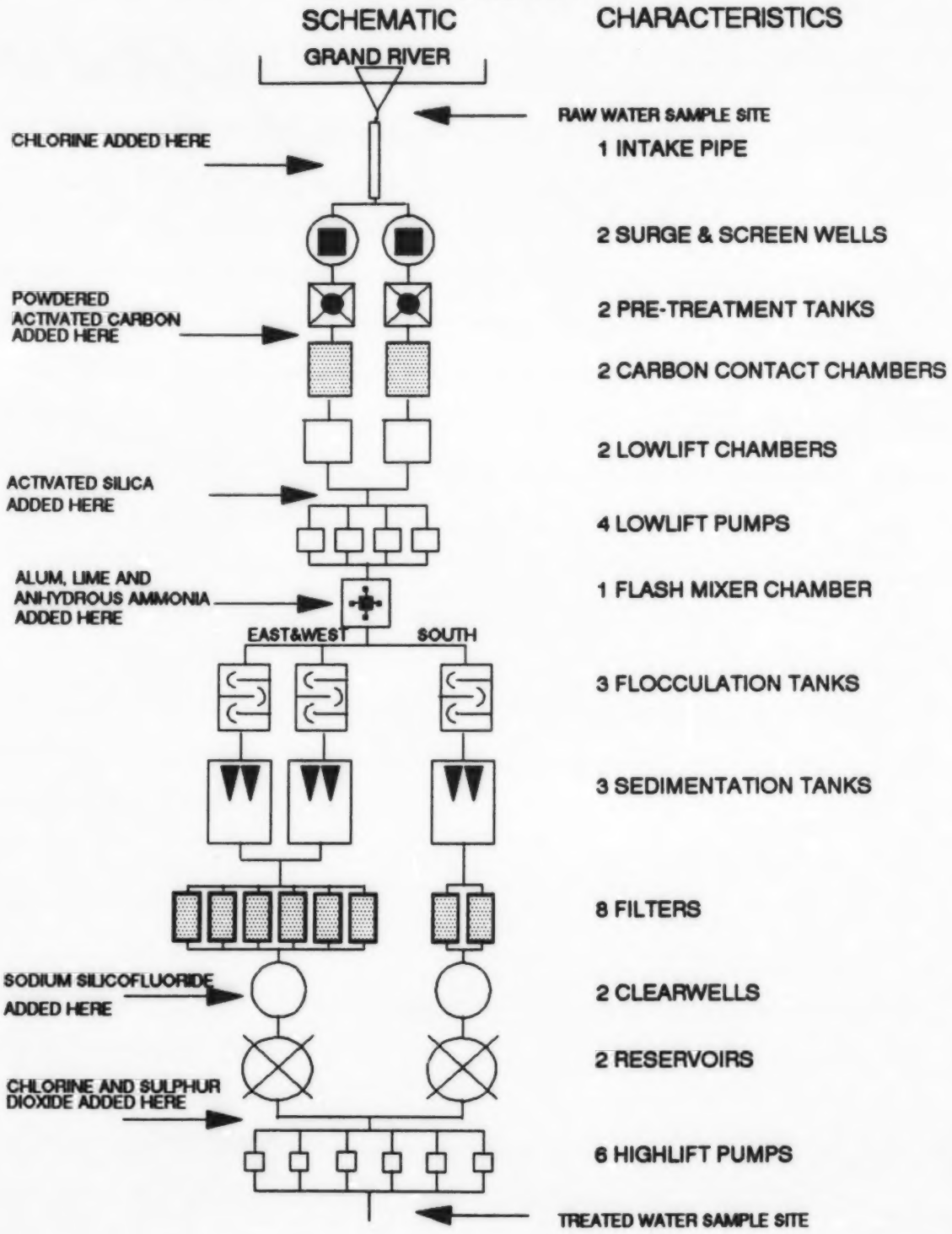

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING BRANTFORD WTP 1989

| PARAMETER | LOCATION | FREQUENCY |
|---|---|---|
| Chlorine residual-free | Pre-treatment basin | continuous |
| | Treated water | continuous |
| Ph | Filter effluent | continuous |
| Turbidity | Pre-treatment basin | continuous |
| | Filter influent | continuous |
| | Finished water | continuous |

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

BRANTFORD WATER SUPPLY SYSTEM

| | |
|---|---|
| LOCATION: | 324 GRAND RIVER AVENUE<br>BRANTFORD, ONTARIO<br>N3T 4Y8<br>(519-753-7391) |
| SOURCE: | RAW WATER SOURCE - GRAND RIVER<br>VIA HOLMEDALE CANAL |
| RATED CAPACITY: | 113.6 (1000 $M^3$/DAY) |
| OPERATION: | MUNICIPAL |
| PLANT SUPERINTENDENT: | F. SMITH |
| MINISTRY REGION: | WEST CENTRAL |
| DISTRICT OFFICER: | D. IRELAND |

| MUNICIPALITY SERVED | POPULATION |
|---|---|
| BRANTFORD<br>CAINSVILLE (BRANTFORD TOWNSHIP) | 76,000 |

Pesticides and Chlorophenols scans were sampled in June and November only. Polyaromatic Hydrocarbons and Phenolics are only analyzed in the raw and treated water at the plant. As of August 1989, the Triazine pesticides were dropped from the distribution sample. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

## RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed on DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

## DISCUSSION

### General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available, guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS), recently published (ISBN 0-7729-4461-X) by the MOE, catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

**IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANIC PARAMETERS WITH POSITIVE RESULTS.**

The ODWO for selenium was exceeded once. Results of the treated and distributed water indicate that no other health related guidelines were exceeded.

## Bacteriology

### Standard Plate Count

One treated sample and five distribution site samples were above the ODWO aesthetic guideline of 500 counts/mL indicating some deterioration in the water quality.

## Inorganic and Physical Parameters

### Turbidity

Laboratory turbidity values reported three treated water samples above the health related ODWO of 1.0 Formazin Turbidity Units (FTU). The corresponding field turbidity values did not support the laboratory results. Protocol for turbidity states that measurements should be made within 48 hours. This is not always achieved except when measured in the field, the field values are therefore considered more reliable.

**Colour**

**The aesthetic ODWO of 5.0 True Colour Units (TCU) was exceeded eight times in the treated water and a total of nineteen times in both distribution locations.**

**Fluoride**

**The Laboratory results indicate that fluoride levels were generally below the ODWO recommended range of 1.0 - 1.4 mg/L in four treated and eight distribution samples. There were also two values above the recommended level.**

**Hardness**

**The aesthetic ODWO indicates that a hardness level of between 80 and 100 mg/L, as the equivalent quantity of calcium carbonate is appropriate and water supplies with a hardness greater than 200 mg/L are considered poor. Hardness values in the Brantford supply ranged from 206 - 375 mg/L as Calcium Carbonate.**

**Other parameters associated with hardness, calcium and conductivity were also frequently above aesthetic limits.**

**Selenium**

**The health related ODWO of 10.0 µg/L for selenium was exceeded in the May treated water sample at 12.0 µg/L. The District Officer was notified.**

**Aluminum**

The plant operational guideline of 100 µg/L as Al in water leaving the plant was exceeded in nine treated and eleven distribution samples.

Organic Parameters

**Hexachloroethane**

Hexachloroethane was detected positive levels in the May treated water sample at 10 µg/L. The United States Environmental Protection Agency (EPA) cite an Ambient Water Quality Criteria value of 1,900 µg/L.

**Atrazine**

Atrazine was detected positive in one treated water and in one distribution site sample. Health and Welfare Canada have a Maximum Acceptable Concentration (MAC) of 60,000 ng/L for Atrazine in drinking water.

**Trihalomethanes**

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds

as well as for total THMs. All Total THM occurrences in the treated and distributed samples ranging from 74.2 to 273.2 µg/L, were below the ODWO of 350 µg/L.

## CONCLUSIONS

The health related ODWO for selenium was exceeded in one sample.

The results listed in this report are consistent with results reported for previous years.

The treated water was of good quality and this was maintained in the distribution.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP SAMPLE DAY CONDITIONS FOR 1989

| | SAMPLE DAY CONDITIONS | | | TREATMENT CHEMICAL DOSAGES (MG/L) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PRE-CHLORINATION | TASTE & ODOUR | CHLORAMINATION | COAGULATION | COAGULATION AID | ACTIVATION | POST PH ADJUSTMEN | FLUORIDATION | POST-CHLORINATION |
| ATE | DELAY* TIME(HRS) | FLOW (1000M3) | CHLORINE | ACTIVATED CARBON POWDER | AMMONIUM ANHYDROUS | ALUM LIQUID | SODIUM SILICATE | SULPHURIC ACID | CALCIUM HYDROXIDE | SODIUM SILICOFLUORIDE | CHLORINE |
| AR 18 | 5.0 | . | 11.89 | 5.00 | | | | | | | |
| EB 22 | 4.5 | . | 10.77 | . | .36 | 35.00 | 7.00 | | | | |
| AR 29 | . | . | 15.40 | 5.00 | .25 | 30.00 | 6.00 | . | . | 1.00 | . |
| PR 18 | 5.0 | . | 9.26 | 5.00 | .26 | 45.00 | 8.00 | . | . | 1.00 | . |
| AY 30 | 4.5 | . | 11.65 | . | .25 | 40.00 | 10.00 | . | . | 1.00 | . |
| UL 05 | 4.0 | . | 9.46 | . | .30 | 25.00 | 5.00 | . | 4.00 | 1.00 | . |
| UL 26 | 5.0 | . | 9.86 | . | .31 | 40.00 | 8.00 | . | . | .95 | . |
| UG 29 | 4.0 | 64. | 8.25 | . | .18 | 30.00 | 6.00 | . | . | 1.00 | .30 |
| EP 26 | 5.0 | . | 8.27 | . | .19 | 5.00 | 7.00 | . | 7.00 | 1.00 | .21 |
| CT 31 | 5.0 | . | .76 | . | .28 | 25.00 | 6.00 | . | 8.60 | 1.00 | .02 |
| OV 28 | 5.0 | 53.3 | 8.88 | . | .03 | 2.50 | .50 | 2.75 | . | 1.00 | .14 |
| EC 19 | 4.0 | . | 13.56 | . | .30 | 45.00 | 10.00 | .19 | . | .10 | .02 |
| | | | | . | .27 | 25.00 | 8.00 | 3.30 | . | 1.00 | .10 |
| | | | | | | | | 3.00 | . | 1.00 | .30 |

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| BACTERIOLOGICAL | FECAL COLIFORM MF | 12 | 11 | 0 | . | . | . | . | . | . | . | . | . |
| | STANDRD PLATE CNT MF | . | . | . | 12 | 3 | 0 | 11 | 6 | 0 | 12 | 12 | 0 |
| | TOTAL COLIFORM MF | 12 | 10 | 0 | 12 | 0 | 0 | 11 | 2 | 0 | 12 | 0 | 0 |
| | T COLIFORM BCKGRD MF | 12 | 12 | 0 | 12 | 2 | 0 | 11 | 2 | 0 | 12 | 4 | 0 |
| *TOTAL SCAN BACTERIOLOGICAL | | 36 | 33 | 0 | 36 | 5 | 0 | 33 | 10 | 0 | 36 | 16 | 0 |
| *TOTAL GROUP BACTERIOLOGICAL | | 36 | 33 | 0 | 36 | 5 | 0 | 33 | 10 | 0 | 36 | 16 | 0 |
| CHEMISTRY (FLD) | FLD CHLORINE (COMB) | . | . | . | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | FLD CHLORINE FREE | . | . | . | 6 | 2 | 0 | 11 | 2 | 0 | 12 | 0 | 0 |
| | FLD CHLORINE (TOTAL) | . | . | . | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | FLD PH | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | FLD TEMPERATURE | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | FLD TURBIDITY | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| *TOTAL SCAN CHEMISTRY (FLD) | | 36 | 36 | 0 | 66 | 62 | 0 | 116 | 107 | 0 | 132 | 120 | 0 |
| CHEMISTRY (LAB) | ALKALINITY | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | CALCIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | CYANIDE | 12 | 0 | 0 | 12 | 0 | 1 | 11 | 0 | 0 | 12 | 0 | 2 |
| | CHLORIDE | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | COLOUR | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | CONDUCTIVITY | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHEMISTRY (LAB) | FLUORIDE | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | HARDNESS | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | IONCAL | 12 | 12 | 0 | 12 | 12 | 0 | 22 | 21 | 0 | 24 | 24 | 0 |
| | LANGELIERS INDEX | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | MAGNESIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | SODIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | AMMONIUM TOTAL | 12 | 9 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 22 | 1 |
| | NITRITE | 12 | 11 | 1 | 12 | 4 | 8 | 21 | 15 | 6 | 24 | 22 | 1 |
| | TOTAL NITRATES | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | NITROGEN TOT KJELD | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | PH | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | PHOSPHORUS FIL REACT | 12 | 10 | 1 | 12 | 6 | 5 | . | . | . | . | . | . |
| | PHOSPHORUS TOTAL | 12 | 12 | 0 | 12 | 9 | 3 | . | . | . | . | . | . |
| | SULPHATE | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| | TURBIDITY | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 24 | 24 | 0 |
| *TOTAL SCAN CHEMISTRY (LAB) | | 252 | 234 | 2 | 252 | 223 | 17 | 390 | 372 | 6 | 444 | 428 | 4 |
| METALS | SILVER | 12 | 0 | 2 | 12 | 0 | 0 | 21 | 0 | 6 | 23 | 0 | 11 |
| | ALUMINUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | ARSENIC | 12 | 2 | 9 | 12 | 1 | 10 | 21 | 1 | 17 | 23 | 1 | 17 |
| | BARIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | BORON | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | BERYLLIUM | 12 | 1 | 8 | 12 | 0 | 9 | 21 | 0 | 14 | 23 | 0 | 17 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METALS | CADMIUM | 12 | 0 | 7 | 12 | 0 | 1 | 21 | 0 | 9 | 23 | 6 | 12 |
| | COBALT | 12 | 0 | 12 | 12 | 0 | 12 | 21 | 0 | 20 | 23 | 0 | 22 |
| | CHROMIUM | 12 | 9 | 3 | 12 | 9 | 3 | 21 | 16 | 4 | 23 | 17 | 6 |
| | COPPER | 12 | 11 | 1 | 12 | 11 | 1 | 21 | 21 | 0 | 23 | 23 | 0 |
| | IRON | 12 | 12 | 0 | 12 | 0 | 5 | 21 | 1 | 20 | 23 | 0 | 19 |
| | MERCURY | 11 | 0 | 3 | 10 | 0 | 3 | 9 | 0 | 2 | 10 | 0 | 2 |
| | MANGANESE | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | MOLYBDENUM | 12 | 11 | 1 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | NICKEL | 12 | 9 | 3 | 12 | 4 | 7 | 21 | 11 | 10 | 23 | 15 | 8 |
| | LEAD | 12 | 12 | 0 | 12 | 8 | 4 | 21 | 20 | 1 | 23 | 23 | 0 |
| | ANTIMONY | 12 | 11 | 1 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | SELENIUM | 12 | 0 | 7 | 12 | 2 | 9 | 21 | 2 | 16 | 23 | 5 | 14 |
| | STRONTIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | TITANIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | THALLIUM | 12 | 0 | 8 | 12 | 0 | 5 | 21 | 0 | 4 | 23 | 0 | 10 |
| | URANIUM | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | VANADIUM | 12 | 10 | 2 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| | ZINC | 12 | 12 | 0 | 12 | 12 | 0 | 21 | 21 | 0 | 23 | 23 | 0 |
| *TOTAL SCAN METALS | | 287 | 184 | 67 | 286 | 167 | 69 | 492 | 303 | 123 | 539 | 343 | 138 |
| *TOTAL GROUP INORGANIC & PHYSICAL | | 575 | 454 | 69 | 604 | 452 | 86 | 998 | 782 | 129 | 1115 | 891 | 142 |
| CHLOROAROMATICS | HEXACHLOROBUTADIENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 123 TRICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHLOROAROMATICS | 1234 T-CHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 1235 T-CHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 124 TRICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 1245 T-CHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 135 TRICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | HCB | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | HEXACHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 1 | 0 | 11 | 0 | 0 |
| | OCTACHLOROSTYRENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | PENTACHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 236 TRICHLOROTOLUENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 245 TRICHLOROTOLUENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 26A TRICHLOROTOLUENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| *TOTAL SCAN CHLOROAROMATICS | | 168 | 0 | 0 | 168 | 0 | 0 | 140 | 1 | 0 | 154 | 0 | 0 |
| CHLOROPHENOLS | 234 TRICHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 2345 T-CHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 2356 T-CHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 245-TRICHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 246-TRICHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | PENTACHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| *TOTAL SCAN CHLOROPHENOLS | | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PAH | PHENANTHRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | ANTHRACENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | FLUORANTHENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | PYRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(A)ANTHRACENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | CHRYSENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | DIMETH. BENZ(A)ANTHR | 5 | 0 | 0 | 5 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(E) PYRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(B) FLUORANTHEN | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | PERYLENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(K) FLUORANTHEN | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(A) PYRENE | 6 | 1 | 0 | 5 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(G,H,I) PERYLEN | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | DIBENZO(A,H) ANTHRAC | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | INDENO(1,2,3-C,D) PY | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | BENZO(B) CHRYSENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| | CORONENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . |
| *TOTAL SCAN PAH | | 191 | 1 | 0 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PESTICIDES & PCB | ALDRIN | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ALPHA BHC | 12 | 0 | 2 | 12 | 0 | 0 | 10 | 0 | 4 | 11 | 0 | 2 |
| | BETA BHC | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | LINDANE | 12 | 0 | 8 | 12 | 0 | 8 | 10 | 0 | 6 | 11 | 0 | 8 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PESTICIDES & PCB | ALPHA CHLORDANE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | GAMMA CHLORDANE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | DIELDRIN | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | METHOXYCHLOR | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ENDOSULFAN 1 | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ENDOSULFAN II | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ENDRIN | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ENDOSULFAN SULPHATE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | HEPTACHLOR EPOXIDE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | HEPTACHLOR | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | MIREX | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | OXYCHLORDANE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | OPDDT | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | PCB | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | DDD | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | PPDDE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | PPDDT | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | AMETRINE | 11 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | ATRAZINE | 12 | 0 | 7 | 12 | 1 | 9 | 6 | 0 | 0 | 7 | 0 | 0 |
| | ATRATONE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 1 | 3 | 7 | 0 | 5 |
| | CYANAZINE (BLADEX) | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| | D-ETHYL ATRAZINE | 12 | 0 | 4 | 12 | 0 | 2 | 6 | 0 | 0 | 7 | 0 | 0 |
| | D-ETHYL SIMAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 1 |
| | PROMETONE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| | PROPAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| | | SITE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| PESTICIDES & PCB | PROMETRYNE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| | METRIBUZIN (SENCOR) | 12 | 0 | 0 | 12 | 0 | 1 | 6 | 0 | 0 | 7 | 0 | 0 |
| | SIMAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| | ALACHLOR (LASSO) | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| | METOLACHLOR | 12 | 0 | 0 | 12 | 0 | 0 | 6 | 0 | 0 | 7 | 0 | 0 |
| *TOTAL SCAN PESTICIDES & PCB | | 407 | 0 | 21 | 408 | 1 | 20 | 288 | 1 | 13 | 322 | 0 | 16 |
| PHENOLICS | PHENOLICS | 12 | 12 | 0 | 11 | 11 | 0 | . | . | . | . | . | . |
| *TOTAL SCAN PHENOLICS | | 12 | 12 | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPECIFIC PESTICIDES | TOXAPHENE | 12 | 0 | 0 | 12 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| | 2,4,5-T | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 2,4-D | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 2,4-DB | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | 2,4 D PROPIONIC ACID | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | DICAMBA | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | PICHLORAM | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . |
| | SILVEX | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | DIAZINON | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | DICHLOROVOS | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | CHLORPYRIFOS | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | |
| | | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| SPECIFIC PESTICIDES | ETHION | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | AZINPHOS-METHYL | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . |
| | MALATHION | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | MEVINPHOS | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | METHYL PARATHION | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | METHYLTRITHION | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | PARATHION | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | PHORATE | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | RELDAN | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | RONNEL | 2 | 0 | 0 | 2 | 0 | 0 | . | . | . | . | . | . |
| | AMINOCARB | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . |
| | BENOMYL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | BUX | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . |
| | CARBOFURAN | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | CICP | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | DIALLATE | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | EPTAN | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | IPC | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | PROPOXUR | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | CARBARYL | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| | BUTYLATE | 2 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . |
| *TOTAL SCAN SPECIFIC PESTICIDES | | 65 | 0 | 0 | 57 | 0 | 0 | 10 | 0 | 0 | 11 | 0 | 0 |
| VOLATILES | BENZENE | 12 | 0 | 1 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOLATILES | TOLUENE | 12 | 0 | 2 | 12 | 0 | 4 | 11 | 0 | 6 | 12 | 0 | 6 |
| | ETHYLBENZENE | 12 | 0 | 2 | 12 | 0 | 3 | 11 | 0 | 5 | 12 | 0 | 1 |
| | P-XYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | M-XYLENE | 12 | 0 | 0 | 12 | 0 | 1 | 11 | 0 | 2 | 12 | 0 | 1 |
| | O-XYLENE | 12 | 0 | 0 | 12 | 0 | 2 | 11 | 0 | 3 | 12 | 0 | 2 |
| | STYRENE | 12 | 0 | 5 | 12 | 0 | 8 | 11 | 0 | 8 | 12 | 0 | 6 |
| | 1,1 DICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | METHYLENE CHLORIDE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | T1,2DICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | 1,1 DICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | CHLOROFORM | 12 | 0 | 3 | 12 | 12 | 0 | 11 | 11 | 0 | 12 | 12 | 0 |
| | 111, TRICHLOROETHANE | 12 | 0 | 2 | 12 | 0 | 1 | 11 | 0 | 1 | 12 | 0 | 3 |
| | 1,2 DICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | CARBON TETRACHLORIDE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | 1,2 DICHLOROPROPANE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | TRICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | DICHLOROBROMOMETHANE | 12 | 0 | 0 | 12 | 12 | 0 | 11 | 11 | 0 | 12 | 12 | 0 |
| | 112 TRICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | CHLORODIBROMOMETHANE | 12 | 0 | 0 | 12 | 8 | 4 | 11 | 7 | 3 | 12 | 7 | 5 |
| | T-CHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 2 | 11 | 0 | 1 | 12 | 0 | 2 |
| | BROMOFORM | 12 | 0 | 0 | 12 | 0 | 1 | 11 | 0 | 0 | 12 | 0 | 0 |
| | 1122 T-CHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | CHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | 1,4 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | 1,3 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOLATILES | 1,2 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | ETHLYENE DIBROMIDE | 12 | 0 | 0 | 12 | 0 | 0 | 11 | 0 | 0 | 12 | 0 | 0 |
| | TOTL TRIHALOMETHANES | 12 | 0 | 1 | 12 | 12 | 0 | 11 | 11 | 0 | 12 | 12 | 0 |
| *TOTAL SCAN VOLATILES | | 348 | 0 | 16 | 348 | 44 | 26 | 319 | 40 | 29 | 348 | 43 | 26 |
| *TOTAL GROUP ORGANIC | | 1203 | 13 | 37 | 1194 | 56 | 46 | 757 | 42 | 42 | 835 | 43 | 42 |
| TOTAL | | 1814 | 500 | 106 | 1834 | 513 | 132 | 1788 | 834 | 171 | 1986 | 950 | 184 |

## KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 $^{0}$C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, the AO is a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

## INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. Studies of long-term environmental trends and modelling may however, be adversely affected by the exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported with the code "<T". Results qualified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. The average of such data however, is still only an estimate of the amount of substance present subject to the possible biases of the method used.

## LABORATORY RESULTS, REMARK DESCRIPTIONS

| | |
|---|---|
| . | No Sample Taken |
| BDL | Below Minimum Measurable Amount |
| <T | Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE) |
| > | Results Are Greater Than The Upper Limit |
| <=> | Approximate Result |
| !CS | No Data: Contamination Suspected |
| !IL | No Data: Sample Incorrectly Labelled |
| !IS | No Data: Insufficient Sample |
| !IV | No Data: Inverted Septum |
| !LA | No Data: Laboratory Accident |
| !LD | No Data: Test Queued After Sample Discarded |

| | |
|---|---|
| !NA | No Data: No Authorization To Perform Reanalysis |
| !NP | No Data: No Procedure |
| !NR | No Data: Sample Not Received |
| !OP | No Data: Obscured Plate |
| !QU | No Data: Quality Control Unacceptable |
| !RE | No Data: Received Empty |
| !RO | No Data: See Attached Report (no numeric results) |
| !SM | No Data: Sample Missing |
| !SS | No Data: Send Separate Sample Properly Preserved |
| !UI | No Data: Indeterminant Interference |
| !TX | No Data: Time Expired |
| A3C | Approximate, Total Count Exceeded 300 Colonies |
| APL | Additional Peak, Large, Not Priority Pollutant |
| APS | Additional Peak, Less Than, Not Priority Pollutant |
| CIC | Possible Contamination, Improper Cap |
| CRO | Calculated Result Only |
| PPS | Test Performed On Preserved Sample |
| RMP | P and M-Xylene Not Separated |
| RRV | Rerun Verification |
| RVU | Reported Value Unusual |
| SPS | Several Peaks, Small, Not Priority Pollutant |
| UAL | Unreliable: Sample Age Exceeds Normal Limit |
| UCR | Unreliable: Could Not Confirm By Reanalysis |
| UCS | Unreliable: Contamination Suspected |
| USD | Unreliable: Sample Decomposition Noted |
| UIN | Unreliable: Indeterminant Interference |
| XP | Positive After X Number of Hours |
| T# (T06) | Result Taken After # Hours |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| **BACTERIOLOGICAL** | | | | | | |
| **FECAL COLIFORM MF (CT/100ML )** | | | DET'N LIMIT = 0 | | GUIDELINE = 0 (A1) | |
| JAN | 40 T24 | . | . | . | . | . |
| FEB | 0 T24 | . | . | . | . | . |
| MAR | 3 T24 | . | . | . | . | . |
| APR | 69 T24 | . | . | . | . | . |
| MAY | 16 | . | . | . | . | . |
| JUL | 300 | . | . | . | . | . |
| | 160 | . | . | . | . | . |
| AUG | 12 | . | . | . | . | . |
| SEP | 68 | . | . | . | . | . |
| OCT | 36 | . | . | . | . | . |
| NOV | 72 | . | . | . | . | . |
| DEC | 20 | . | . | . | . | . |
| **STANDRD PLATE CNT MF ( )** | | | DET'N LIMIT = 0 | | GUIDELINE = 500/ML (A1) | |
| JAN | . | 9 <=> | . | 15 T24 | . | 100 T24 |
| FEB | . | 5 <=> | . | 6 <=> | . | 35 T24 |
| MAR | . | 8 <=> | . | 15 T48 | . | 51 T48 |
| APR | . | 5 <=> | . | 9 <=> | . | 75 T24 |
| MAY | . | 74 | . | 13 | . | 4800 |
| JUL | . | 2400 > | . | 820 | . | 2400 > |
| | . | 4 <=> | . | . | . | 24000 > |
| AUG | . | 1 <=> | . | 12 | . | 24000 > |
| SEP | . | 6 <=> | . | 3 <=> | . | 440 |
| OCT | . | 3 <=> | . | 3 <=> | . | 34 |
| NOV | . | 4 <=> | . | 8 <=> | . | 78 |
| DEC | . | 10 | . | 11 | . | 78 |
| **TOTAL COLIFORM MF (CT/100ML )** | | | DET'N LIMIT = 0 | | GUIDELINE = 5/100ML(A1) | |
| JAN | 2900 A3C | 0 T24 | . | 1 T24 | . | 0 T24 |
| FEB | 230 A3C | 0 T24 | . | 0 T24 | . | 0 T24 |
| MAR | 490 A3C | 0 T24 | . | 0 T48 | . | 0 T48 |
| APR | 6200 A3C | 3 <=> | . | 0 T24 | . | 0 T24 |
| MAY | 140 A3C | 0 | . | 0 | . | 0 |
| JUL | 2100 A3C | 0 | . | 2 A3C | . | 0 A3C |
| | 1000 <=> | 0 | . | . | . | 0 A3C |
| AUG | 100 <=> | 0 | . | 0 | . | 0 |
| SEP | 2100 A3C | 0 | . | 0 | . | 0 |
| OCT | 1000 | 0 | . | 0 | . | 0 |
| NOV | 3600 A3C | 0 | . | 0 | . | 0 |
| DEC | 1700 | 0 | . | 0 | . | 0 |
| **T COLIFORM BCKGRD MF (CT/100ML )** | | | DET'N LIMIT = 0 | | GUIDELINE = N/A | |
| JAN | 05000 A3C | 0 T24 | . | 3 T24 | . | 0 T24 |
| FEB | 3700 A3C | 0 T24 | . | 0 T24 | . | 0 T24 |
| MAR | 10400 A3C | 0 T24 | . | 0 T48 | . | 0 T48 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | 64000 A3C | 2 <=> | . | 0 T24 | . | 0 T24 |
| MAY | 24000 > | 2 | . | 0 | . | 0 |
| JUL | 49000 A3C | 0 | . | 1375 A3C | . | 40000 > |
| | 05000 | 0 | . | . | . | 2400 > |
| AUG | 40000 > | 0 | . | 0 | . | 4 |
| SEP | 41000 A3C | 0 | . | 0 | . | 5 |
| OCT | 25000 | 1 | . | 0 | . | 0 |
| NOV | 40000 > | 0 | . | 0 | . | 0 |
| DEC | 6500 | 0 | . | 0 | . | 0 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| **CHEMISTRY (FLD)** | | | | | | |
| **FLD CHLORINE (COMB) ( )** | | | DET'N LIMIT = N/A | | GUIDELINE = N/A | |
| JAN | . | 1.000 | .700 | .900 | .200 | .400 |
| FEB | . | 1.100 | .700 | .700 | .300 | .500 |
| MAR | . | 1.000 | .700 | .900 | .200 | .500 |
| APR | . | 1.000 | .700 | .900 | .300 | .500 |
| MAY | . | 1.300 | .800 | .800 | .200 | .400 |
| JUL | . | 1.100 | .500 | .600 | .300 | .400 |
| | . | 1.400 | . | . | .300 | .400 |
| AUG | . | 1.600 | .900 | 1.000 | .200 | .300 |
| SEP | . | 1.500 | .500 | .600 | .200 | .300 |
| OCT | . | 1.300 | .500 | .600 | .300 | .500 |
| NOV | . | .850 | . | 1.000 | .150 | .350 |
| DEC | . | 1.100 | .500 | .700 | .100 | .300 |
| **FLD CHLORINE FREE ( )** | | | DET'N LIMIT = N/A | | GUIDELINE = N/A | |
| MAR | . | .100 | . | .100 | . | . |
| MAY | . | . | . | .100 | . | . |
| JUL | . | .000 | .000 | .000 | .000 | .000 |
| | . | .100 | . | . | .000 | .000 |
| AUG | . | .000 | .000 | .000 | .000 | .000 |
| SEP | . | .000 | .000 | .000 | .000 | .000 |
| NOV | . | .000 | . | .000 | .000 | .000 |
| DEC | . | . | .000 | .000 | .000 | .000 |
| **FLD CHLORINE (TOTAL) ( )** | | | DET'N LIMIT = N/A | | GUIDELINE = N/A | |
| JAN | . | 1.000 | .700 | .900 | .200 | .400 |
| FEB | . | 1.100 | .700 | .700 | .300 | .500 |
| MAR | . | 1.100 | .700 | 1.000 | .200 | .500 |
| APR | . | 1.000 | .700 | .900 | .300 | .500 |
| MAY | . | 1.300 | .800 | .900 | .200 | .400 |
| JUL | . | 1.100 | .500 | .600 | .300 | .400 |
| | . | 1.500 | . | . | .300 | .400 |
| AUG | . | 1.600 | .900 | 1.000 | .200 | .300 |
| SEP | . | 1.500 | .500 | .600 | .200 | .300 |
| OCT | . | 1.300 | .500 | .600 | .300 | .500 |
| NOV | . | .850 | . | 1.000 | .150 | .350 |
| DEC | . | 1.100 | .500 | .700 | .100 | .300 |
| **FLD PH (DIMNSLESS )** | | | DET'N LIMIT = N/A | | GUIDELINE = 6.5-8.5(A4) | |
| JAN | 8.000 | 7.300 | 7.400 | 7.500 | 7.300 | 7.400 |
| FEB | 8.000 | 7.600 | 7.400 | 7.400 | 7.400 | 7.400 |
| MAR | 8.200 | 7.400 | 7.800 | 7.700 | 7.600 | 7.500 |
| APR | 8.000 | 7.400 | 7.500 | 7.500 | 7.400 | 7.400 |
| MAY | 8.000 | 7.700 | 7.800 | 7.800 | 7.600 | 7.700 |
| JUL | 8.000 | 7.700 | 7.700 | 7.700 | 7.600 | 7.700 |
| | 8.100 | 7.700 | . | . | 7.600 | 7.700 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| AUG | 8.000 | 7.800 | 7.700 | 7.600 | 7.700 | 7.700 |
| SEP | 8.200 | 7.800 | 7.600 | 7.500 | 7.400 | 7.300 |
| OCT | 8.200 | 7.800 | 7.600 | 7.600 | 7.600 | 7.600 |
| NOV | 8.100 | 7.400 | . | 7.400 | 7.300 | 7.400 |
| DEC | 8.100 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 |
| FLD TEMPERATURE (DEG.C ) | | | DET'N LIMIT = N/A | | GUIDELINE = 15 (A1) | |
| JAN | 7.500 | 5.000 | 10.000 | 7.000 | 21.000 | 9.000 |
| FEB | 7.000 | 6.000 | 9.000 | 7.000 | 21.000 | 6.000 |
| MAR | 9.000 | 9.000 | 11.000 | 5.000 | 20.000 | 5.000 |
| APR | 7.000 | 9.000 | 12.000 | 9.000 | 21.000 | 9.000 |
| MAY | 17.000 | 18.000 | 17.000 | 14.000 | 18.000 | 13.000 |
| JUL | 22.000 | 24.000 | 22.000 | 20.000 | 22.000 | 20.000 |
| | 25.000 | 27.000 | . | . | 21.000 | 21.000 |
| AUG | 21.000 | 22.000 | 22.000 | 21.000 | 22.000 | 21.000 |
| SEP | 16.000 | 16.500 | 19.000 | 17.000 | 20.000 | 18.000 |
| OCT | 12.000 | 12.000 | 15.000 | 14.000 | 19.000 | 14.000 |
| NOV | 4.500 | 4.500 | . | 8.000 | 21.000 | 11.000 |
| DEC | 3.500 | 6.000 | 9.000 | 9.000 | 21.000 | 10.000 |
| FLD TURBIDITY (FTU ) | | | DET'N LIMIT = N/A | | GUIDELINE = 1.0 (A1) | |
| JAN | 6.300 | .560 | .110 | .170 | .310 | .340 |
| FEB | 4.900 | .090 | .240 | .110 | .100 | .090 |
| MAR | 18.100 | .800 | .470 | .330 | .170 | .180 |
| APR | 29.000 | .360 | .430 | .250 | .190 | .170 |
| MAY | 6.700 | .300 | .390 | .370 | .440 | .370 |
| JUL | 16.500 | .310 | .240 | .270 | .330 | .240 |
| | 14.800 | .200 | . | . | .210 | .120 |
| AUG | 18.100 | .170 | .150 | .130 | .360 | .130 |
| SEP | 8.000 | .260 | .180 | .120 | .630 | .130 |
| OCT | 7.400 | .300 | .300 | .310 | .180 | .160 |
| NOV | 9.800 | .640 | . | 1.310 | .180 | .150 |
| DEC | 2.700 | .150 | .410 | .450 | .290 | .060 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| **CHEMISTRY (LAB)** | | | | | | |
| **ALKALINITY (MG/L )** | | | DET'N LIMIT = .200 | | GUIDELINE = 30-500 (A4) | |
| JAN | 205.100 | 179.900 | 187.200 | 190.000 | 170.900 | 173.400 |
| FEB | 235.300 | 224.000 | 220.800 | 220.300 | 219.900 | 222.300 |
| MAR | 179.000 | 111.100 | 108.900 | 109.000 | 146.900 | 137.700 |
| APR | 172.300 | 158.000 | 158.500 | 159.900 | 184.800 | 166.200 |
| MAY | 193.300 | 180.200 | 180.000 | 181.200 | 179.900 | 179.200 |
| JUL | 177.400 | 174.200 | 162.100 | 162.300 | 169.200 | 166.700 |
| | 177.000 | 160.500 | . | . | 164.500 | 162.700 |
| AUG | 174.600 | 153.600 | 156.000 | 155.000 | 153.500 | 152.700 |
| SEP | 174.100 | 159.500 | 161.800 | 163.400 | 156.900 | 157.700 |
| OCT | 206.500 | 196.400 | 189.800 | 188.600 | 186.900 | 188.100 |
| NOV | 212.900 | 187.600 | . | 183.200 | 176.500 | 176.600 |
| DEC | 248.800 | 216.500 | 223.100 | 222.400 | 213.500 | 214.800 |
| **CALCIUM (MG/L )** | | | DET'N LIMIT = .100 | | GUIDELINE = 100 (F2) | |
| JAN | 82.400 | 82.800 | 86.800 | 86.000 | 81.200 | 82.000 |
| FEB | 102.000 | 107.000 | 109.000 | 108.000 | 108.000 | 110.000 |
| MAR | 79.000 | 62.400 | 58.400 | 57.800 | 74.400 | 70.400 |
| APR | 64.800 | 70.000 | 70.800 | 71.000 | 84.800 | 74.400 |
| MAY | 76.600 | 79.000 | 79.000 | 80.600 | 82.200 | 81.400 |
| JUL | 73.200 | 81.000 | 77.200 | 76.200 | 79.600 | 79.800 |
| | 72.200 | 75.600 | . | . | 77.200 | 74.400 |
| AUG | 72.000 | 74.800 | 74.400 | 74.200 | 72.400 | 73.000 |
| SEP | 77.400 | 78.600 | 85.000 | 84.600 | 78.400 | 80.200 |
| OCT | 84.600 | 86.200 | 83.600 | 82.800 | 85.200 | 85.400 |
| NOV | 90.400 | 91.600 | . | 92.400 | 88.400 | 88.400 |
| DEC | 105.300 | 101.500 | 104.300 | 102.500 | 100.800 | 100.700 |
| **CYANIDE (MG/L )** | | | DET'N LIMIT = 0.001 | | GUIDELINE = .200 (A1) | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | .003 <T | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | .004 <T |
| DEC | BDL | BDL | . | BDL | . | .002 <T |
| **CHLORIDE (MG/L )** | | | DET'N LIMIT = .200 | | GUIDELINE = 250 (A3) | |
| JAN | 78.200 | 80.600 | 73.300 | 74.800 | 92.000 | 84.400 |
| FEB | 118.000 | 94.300 | 89.800 | 88.900 | 120.000 | 108.000 |
| MAR | 90.300 | 63.500 | 38.900 | 39.000 | 81.400 | 74.200 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | 26.200 | 38.900 | 35.500 | 35.100 | 58.200 | 45.100 |
| MAY | 64.100 | 73.800 | 68.200 | 66.300 | 79.800 | 75.800 |
| JUL | 61.500 | 69.400 | 71.700 | 71.100 | 72.500 | 72.400 |
| | 74.800 | 82.400 | . | . | 82.200 | 81.800 |
| AUG | 83.500 | 90.800 | 91.500 | 90.800 | 92.200 | 92.300 |
| SEP | 79.000 | 88.200 | 84.700 | 82.800 | 89.600 | 89.100 |
| OCT | 64.000 | 70.800 | 72.400 | 70.400 | 73.800 | 72.800 |
| NOV | 55.500 | 63.500 | . | 63.700 | 65.500 | 64.100 |
| DEC | 71.600 | 83.600 | 84.900 | 84.400 | 84.700 | 83.900 |
| COLOUR (NZU ) | | | DET'N LIMIT = .5 | | GUIDELINE = 5.0 (A3) | |
| JAN | 20.500 | 6.000 | 7.500 | 6.500 | 7.000 | 7.500 |
| FEB | 17.500 | 5.500 | 5.500 | 5.500 | 6.000 | 6.000 |
| MAR | 21.000 | 5.500 | 7.000 | 7.000 | 7.500 | 6.000 |
| APR | 23.000 | 6.500 | 7.000 | 7.500 | 6.500 | 6.500 |
| MAY | 19.500 | 4.000 | 6.000 | 6.500 | 6.000 | 5.500 |
| JUL | 22.500 | 7.000 | 7.000 | 7.500 | 8.000 | 8.000 |
| | 20.500 | 3.000 | . | . | 6.000 | 5.500 |
| AUG | 16.500 | 4.000 | 4.500 | 4.500 | 4.000 | 5.000 |
| SEP | 16.500 | 3.000 | 5.000 | 4.500 | 5.000 | 5.000 |
| OCT | 19.500 | 6.500 | 8.000 | 8.000 | 7.500 | 7.500 |
| NOV | 26.500 | 8.000 | . | 7.500 | 10.000 | 9.500 |
| DEC | 24.000 | 8.000 | 8.500 | 8.500 | 10.500 | 9.000 |
| CONDUCTIVITY (UMHO/CM ) | | | DET'N LIMIT = 1 | | GUIDELINE = 400 (F2) | |
| JAN | 762 | 784 | 761 | 770 | 803 | 779 |
| FEB | 1015 | 954 | 937 | 936 | 1029 | 998 |
| MAR | 795 | 583 | 466 | 465 | 731 | 675 |
| APR | 501 | 561 | 551 | 553 | 707 | 612 |
| MAY | 709 | 746 | 723 | 717 | 778 | 758 |
| JUL | 688 | 733 | 731 | 730 | 745 | 746 |
| | 768 | 794 | . | . | 802 | 798 |
| AUG | 812 | 824 | 835 | 830 | 832 | 830 |
| SEP | 790 | 830 | 818 | 813 | 805 | 805 |
| OCT | 749 | 772 | 771 | 763 | 780 | 776 |
| NOV | 735 | 761 | . | 770 | 755 | 752 |
| DEC | 908 | 913 | 933 | 927 | 918 | 920 |
| FLUORIDE (MG/L ) | | | DET'N LIMIT = .01 | | GUIDELINE = 2.400 (A1) | |
| JAN | .120 | .900 | .660 | .400 | .840 | .840 |
| FEB | .140 | 1.060 | .560 | .360 | 1.220 | 1.180 |
| MAR | .140 | .980 | 1.000 | 1.000 | 1.000 | 1.040 |
| APR | .080 | .840 | .920 | .940 | .940 | .900 |
| MAY | .160 | 1.060 | 1.080 | 1.120 | .780 | .900 |
| JUL | .200 | .800 | .600 | .460 | .720 | .680 |
| | .160 | 1.100 | . | . | .960 | 1.000 |
| AUG | .180 | 1.140 | 1.080 | 1.120 | 1.120 | 1.120 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| SEP | .160 | 1.120 | 1.220 | 1.320 | 1.260 | 1.120 |
| OCT | .160 | 1.120 | 1.260 | 1.280 | 1.000 | 1.180 |
| NOV | .100 | 1.500 | . | 1.540 | 1.180 | 1.280 |
| DEC | .140 | 1.160 | 1.200 | 1.200 | 1.400 | 1.240 |
| HARDNESS (MG/L ) | | | DET'N LIMIT = .500 | | GUIDELINE = 80-100 (A4) | |
| JAN | 289.000 | 292.000 | 304.000 | 303.000 | 287.000 | 290.000 |
| FEB | 359.000 | 375.000 | 382.000 | 380.000 | 378.000 | 381.000 |
| MAR | 273.000 | 206.000 | 186.000 | 184.000 | 251.000 | 236.000 |
| APR | 225.000 | 241.000 | 240.000 | 241.000 | 292.000 | 256.000 |
| MAY | 280.000 | 287.000 | 287.000 | 290.000 | 297.000 | 294.000 |
| JUL | 277.000 | 296.000 | 288.000 | 286.000 | 295.000 | 294.000 |
| | 278.000 | 285.000 | . | . | 290.000 | 282.000 |
| AUG | 282.000 | 288.000 | 288.000 | 289.000 | 282.000 | 283.000 |
| SEP | 289.000 | 291.000 | 310.000 | 310.000 | 290.000 | 295.000 |
| OCT | 310.000 | 314.000 | 306.000 | 304.000 | 308.000 | 310.000 |
| NOV | 319.000 | 319.000 | . | 322.000 | 312.000 | 311.000 |
| DEC | 369.200 | 356.900 | 365.100 | 361.600 | 355.300 | 353.600 |
| IONCAL (DIMNSLESS ) | | | DET'N LIMIT = N/A | | GUIDELINE = N/A | |
| JAN | .069 | .438 | 2.171 | .080 | .852 | .571 |
| FEB | .119 | 1.499 | .229 | 1.359 | 2.012 | .534 |
| MAR | .202 | 1.147 | 2.139 | 2.687 | .362 | .257 |
| APR | .499 | 1.324 | 1.170 | 1.239 | 2.976 | 2.538 |
| MAY | .502 | .024 | .842 | 1.373 | 1.109 | 1.448 |
| JUL | 2.539 | 2.590 | 1.629 | 1.820 | 3.095 | 3.164 |
| | 1.173 | .981 | . | . | .697 | 2.240 |
| AUG | 2.442 | .237 | .862 | .007 | 2.243 | 1.613 |
| SEP | 1.727 | .697 | 1.940 | 1.817 | 1.893 | 1.290 |
| OCT | 1.290 | 1.690 | .400 | .255 | .799 | 1.378 |
| NOV | .442 | 1.052 | .000 NAF | .263 | .578 | .661 |
| DEC | 4.709 | 4.447 | 4.639 | 5.315 | 3.253 | 4.075 |
| LANGELIERS INDEX (DIMNSLESS ) | | | DET'N LIMIT = N/A | | GUIDELINE = N/A | |
| JAN | .429 | .433 | .712 | .604 | .481 | .493 |
| FEB | 1.189 | .891 | .854 | .799 | .863 | .908 |
| MAR | .880 | .092 | .506 | .452 | .651 | .551 |
| APR | .837 | .607 | .734 | .729 | .869 | .660 |
| MAY | .984 | .765 | .786 | .787 | .630 | .705 |
| JUL | .658 | .702 | .650 | .595 | .701 | .565 |
| | 1.157 | 1.103 | . | . | 1.083 | 1.072 |
| AUG | 1.048 | .888 | .892 | .868 | .823 | .875 |
| SEP | 1.029 | .846 | .946 | .889 | .869 | .831 |
| OCT | 1.214 | 1.119 | 1.031 | .934 | .852 | .986 |
| NOV | 1.086 | .916 | . | .749 | .664 | .595 |
| DEC | 1.402 | 1.305 | 1.289 | 1.341 | 1.216 | 1.048 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| MAGNESIUM (MG/L ) | | | DET'N LIMIT = .050 | | GUIDELINE = 30 (F2) | |
| JAN | 20.200 | 20.800 | 21.300 | 21.600 | 20.300 | 20.600 |
| FEB | 25.300 | 26.400 | 26.700 | 26.600 | 26.300 | 26.100 |
| MAR | 18.500 | 12.100 | 9.800 | 9.700 | 15.900 | 14.600 |
| APR | 15.400 | 16.100 | 15.400 | 15.500 | 19.500 | 17.200 |
| MAY | 21.500 | 21.800 | 21.900 | 21.500 | 22.400 | 22.100 |
| JUL | 22.800 | 22.700 | 23.200 | 23.200 | 23.200 | 23.000 |
| | 23.800 | 23.400 | . | . | 23.500 | 23.300 |
| AUG | 24.800 | 24.700 | 24.900 | 25.100 | 24.500 | 24.500 |
| SEP | 23.300 | 23.000 | 23.700 | 23.900 | 22.800 | 22.900 |
| OCT | 24.100 | 24.000 | 23.700 | 23.500 | 23.200 | 23.500 |
| NOV | 22.700 | 21.900 | . | 22.200 | 22.200 | 21.900 |
| DEC | 25.800 | 25.100 | 25.400 | 25.700 | 25.200 | 24.850 |
| SODIUM (MG/L ) | | | DET'N LIMIT = .200 | | GUIDELINE = 200 (C3) | |
| JAN | 48.200 | 45.800 | 40.400 | 39.400 | 53.000 | 48.000 |
| FEB | 74.200 | 52.400 | 51.400 | 50.800 | 69.600 | 61.800 |
| MAR | 58.600 | 34.400 | 17.800 | 18.200 | 48.000 | 42.600 |
| APR | 13.000 | 18.200 | 16.400 | 16.600 | 32.600 | 24.600 |
| MAY | 40.200 | 42.800 | 39.000 | 37.800 | 46.800 | 44.200 |
| JUL | 39.200 | 39.600 | 39.800 | 40.600 | 42.600 | 42.600 |
| | 49.600 | 50.600 | . | . | 50.200 | 49.600 |
| AUG | 55.800 | 55.400 | 56.600 | 56.800 | 56.400 | 56.600 |
| SEP | 53.000 | 54.200 | 52.200 | 50.800 | 56.200 | 53.600 |
| OCT | 41.800 | 43.400 | 43.000 | 41.800 | 43.200 | 43.200 |
| NOV | 30.800 | 32.000 | . | 33.600 | 34.200 | 34.000 |
| DEC | 41.800 | 42.600 | 42.500 | 42.400 | 43.900 | 43.300 |
| AMMONIUM TOTAL (MG/L ) | | | DET'N LIMIT = 0.002 | | GUIDELINE = .05 (F2) | |
| JAN | .450 | .256 | .292 | .324 | .120 | .218 |
| FEB | .382 | .292 | .320 | .326 | .180 | .250 |
| MAR | .298 | .272 | .492 | .530 | .152 | .268 |
| APR | .194 | .336 | .402 | .420 | .162 | .284 |
| MAY | .078 | .354 | .394 | .496 | .140 | .250 |
| JUL | .066 | .378 | .306 | .370 | .110 | .152 |
| | .062 | .244 | . | . | .032 | .100 |
| AUG | .046 | .232 | .330 | .316 | .094 | .104 |
| SEP | .042 | .160 | .144 | .166 | .008 <T | .050 |
| OCT | BDL | .164 | .112 | .164 | BDL | .028 |
| NOV | BDL | .182 | . | .146 | .026 | .096 |
| DEC | BDL | .184 | .144 | .158 | .040 | .116 |
| NITRITE (MG/L ) | | | DET'N LIMIT = 0.001 | | GUIDELINE = 1.000 (A1) | |
| JAN | .038 | .004 <T | .009 | .004 <T | .132 | .045 |
| FEB | .044 | .003 <T | .006 | .004 <T | .100 | .023 |
| MAR | .520 | .009 | .013 | .010 | .118 | .021 |
| APR | .137 | .004 <T | .007 | .004 <T | .104 | .007 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| MAY | .100 | .006 | .020 | .010 | .099 | .036 |
| JUL | .101 | .004 <T | .111 | .088 | .095 | .068 |
| | .034 | .004 <T | . | . | .064 | .051 |
| AUG | .024 | .001 <T | .016 | .009 | .029 | .058 |
| SEP | .059 | .002 <T | .052 | .025 | .001 <T | .033 |
| OCT | .001 <T | .002 <T | .036 | .002 <T | BDL | .057 |
| NOV | .580 | .005 | . | .003 <T | .028 | .025 |
| DEC | .173 | .005 | .007 | .004 <T | .022 | .030 |
| TOTAL NITRATES (MG/L ) | | | DET'N LIMIT = .020 | | GUIDELINE = 10.000 (A1) | |
| JAN | 4.560 | 4.710 | 4.500 | 4.390 | 4.750 | 4.590 |
| FEB | 4.410 | 4.520 | 4.600 | 4.600 | 4.760 | 4.700 |
| MAR | 3.890 | 2.920 | 2.800 | 2.740 | 3.190 | 2.920 |
| APR | 4.470 | 4.680 | 4.290 | 4.290 | 5.290 | 4.910 |
| MAY | 2.030 | 2.070 | 2.060 | 2.030 | 2.360 | 2.250 |
| JUL | 1.710 | 2.120 | 2.020 | 1.980 | 2.280 | 2.220 |
| | 1.860 | 1.790 | . | . | 2.140 | 2.100 |
| AUG | 1.620 | 1.590 | 1.740 | 1.700 | 1.810 | 1.800 |
| SEP | 2.620 | 2.640 | 2.610 | 2.470 | 2.670 | 2.620 |
| OCT | 2.120 | 2.080 | 2.230 | 2.160 | 2.400 | 2.300 |
| NOV | 4.990 | 4.690 | . | 4.590 | 4.940 | 4.840 |
| DEC | 5.630 | 4.530 | 4.490 | 4.510 | 4.670 | 4.460 |
| NITROGEN TOT KJELD (MG/L ) | | | DET'N LIMIT = .020 | | GUIDELINE = N/A | |
| JAN | 1.120 | .770 | .800 | .850 | .630 | .750 |
| FEB | .430 | .700 | .770 | .800 | .650 | .720 |
| MAR | 1.380 | .830 | 1.190 | 1.270 | .780 | .970 |
| APR | 1.070 | .950 | .950 | .930 | .670 | .780 |
| MAY | .860 | .850 | .990 | 1.120 | .680 | .760 |
| JUL | 1.020 | .930 | .950 | .960 | .680 | .720 |
| | .850 | .840 | . | . | .570 | .630 |
| AUG | .740 | .730 | .830 | .820 | .580 | .600 |
| SEP | .740 | .710 | .660 | .670 | .510 | .590 |
| OCT | .720 | .730 | .700 | .730 | .540 | .620 |
| NOV | .850 | .770 | . | .690 | .550 | .660 |
| DEC | 1.100 | .780 | .660 | .670 | .500 | .610 |
| PH (DIMNSLESS ) | | | DET'N LIMIT = N/A | | GUIDELINE = 6.5-8.5(A4) | |
| JAN | 7.680 | 7.740 | 7.980 | 7.870 | 7.820 | 7.820 |
| FEB | 8.300 | 8.000 | 7.960 | 7.910 | 7.980 | 8.010 |
| MAR | 8.210 | 7.720 | 8.160 | 8.110 | 8.090 | 8.040 |
| APR | 8.250 | 8.030 | 8.150 | 8.140 | 8.150 | 8.040 |
| MAY | 8.290 | 8.090 | 8.110 | 8.100 | 7.940 | 8.020 |
| JUL | 8.020 | 8.030 | 8.030 | 7.980 | 8.050 | 7.920 |
| | 8.530 | 8.500 | . | . | 8.460 | 8.470 |
| AUG | 8.430 | 8.310 | 8.310 | 8.290 | 8.260 | 8.310 |
| SEP | 8.380 | 8.230 | 8.290 | 8.230 | 8.260 | 8.210 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| OCT | 8.450 | 8.370 | 8.310 | 8.220 | 8.130 | 8.260 |
| NOV | 8.280 | 8.160 | . | 8.000 | 7.950 | 7.880 |
| DEC | 8.470 | 8.450 | 8.410 | 8.470 | 8.370 | 8.200 |
| PHOSPHORUS FIL REACT (MG/L ) | | | DET'N LIMIT = .0005 | | GUIDELINE = N/A | |
| JAN | .047 | .006 | . | . | . | . |
| FEB | .037 | .005 | . | . | . | . |
| MAR | .048 | .005 | . | . | . | . |
| APR | .038 | .003 | . | . | . | . |
| MAY | .011 | .001 <T | . | . | . | . |
| JUL | .005 | .002 <T | . | . | . | . |
| | .001 <T | .000 <T | . | . | . | . |
| AUG | .008 | .002 <T | . | . | . | . |
| SEP | .016 | .002 | . | . | . | . |
| OCT | BDL | BDL | . | . | . | . |
| NOV | .027 | .002 | . | . | . | . |
| DEC | .029 | .000 <T | . | . | . | . |
| PHOSPHORUS TOTAL (MG/L ) | | | DET'N LIMIT = .002 | | GUIDELINE = .40 (F2) | |
| JAN | .079 | .015 | . | . | . | . |
| FEB | .055 | .012 | . | . | . | . |
| MAR | .098 | .020 | . | . | . | . |
| APR | .112 | .012 | . | . | . | . |
| MAY | .071 | .015 | . | . | . | . |
| JUL | .080 | .012 | . | . | . | . |
| | .043 | .009 <T | . | . | . | . |
| AUG | .042 | .009 <T | . | . | . | . |
| SEP | .052 | .013 | . | . | . | . |
| OCT | .038 | .013 | . | . | . | . |
| NOV | .063 | .012 | . | . | . | . |
| DEC | .047 | .009 <T | . | . | . | . |
| SULPHATE (MG/L ) | | | DET'N LIMIT = .200 | | GUIDELINE = 500. (A3) | |
| JAN | 61.380 | 77.540 | 75.150 | 76.430 | 77.740 | 80.290 |
| FEB | 100.470 | 120.040 | 124.770 | 129.940 | 129.060 | 123.580 |
| MAR | 77.580 | 64.420 | 46.130 | 44.130 | 78.460 | 72.790 |
| APR | 28.940 | 46.600 | 48.120 | 48.480 | 64.470 | 53.770 |
| MAY | 75.170 | 86.130 | 83.450 | 83.210 | 90.680 | 87.830 |
| JUL | 79.570 | 90.060 | 95.440 | 95.040 | 92.200 | 94.550 |
| | 97.540 | 111.990 | . | . | 108.840 | 108.440 |
| AUG | 110.390 | 118.380 | 119.770 | 119.060 | 118.690 | 118.820 |
| SEP | 98.650 | 114.100 | 120.110 | 119.160 | 106.890 | 108.720 |
| OCT | 88.130 | 94.500 | 94.730 | 94.380 | 95.430 | 95.500 |
| NOV | 75.640 | 95.270 | . | 102.980 | 93.900 | 94.390 |
| DEC | 107.230 | 114.600 | 115.380 | 116.150 | 111.340 | 112.770 |
| TURBIDITY (FTU ) | | | DET'N LIMIT = .02 | | GUIDELINE = 1.00 (A1) | |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| JAN | 5.600 | 1.000 | .450 | .730 | .900 | .900 |
| FEB | 2.300 | .600 | .820 | .820 | .550 | .300 |
| MAR | 16.000 | 1.720 RRV | 2.200 RRV | 2.000 RRV | .590 | .450 |
| APR | 34.000 | 1.610 RRV | 2.100 RRV | .500 | .450 | .300 |
| MAY | 1.100 | .640 | .650 | .640 | .890 | .600 |
| JUL | .320 | .710 | .820 | .650 | .510 | .500 |
| | 11.200 | .980 | . | . | .460 | .340 |
| AUG | 10.900 | .640 | .550 | .750 | .740 | .970 |
| SEP | 8.700 | .570 | .630 | .370 | .720 | .450 |
| OCT | 8.600 | .870 | .640 | .800 | .390 | .490 |
| NOV | 10.600 | 1.450 | . | 1.820 | .520 | .460 |
| DEC | 2.300 | .550 | .840 | .700 | .330 | .260 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| | METALS | | | | | |
| SILVER (UG/L ) | | | | DET'N LIMIT = .020 | GUIDELINE = 50. (A1) | |
| JAN | BDL | BDL | BDL | BDL | .290 <T | BDL |
| FEB | BDL | BDL | BDL | BDL | .080 <T | BDL |
| MAR | BDL | BDL | BDL | BDL | .170 <T | BDL |
| APR | .030 <T | BDL | BDL | BDL | .250 <T | BDL |
| MAY | BDL | BDL | .090 <T | BDL | .200 <T | .080 <T |
| JUL | .030 <T | BDL | .050 <T | BDL | .180 <T | BDL |
| | BDL | BDL | . | . | .250 <T | BDL |
| AUG | BDL | BDL | .050 <T | BDL | ISH | BDL |
| SEP | BDL | BDL | .030 <T | .030 <T | .070 <T | .040 <T |
| OCT | BDL | BDL | BDL | .030 <T | BDL | .040 <T |
| NOV | BDL | BDL | . | BDL | BDL | BDL |
| DEC | BDL | BDL | BDL | BDL | BDL | BDL |
| ALUMINUM (UG/L ) | | | | DET'N LIMIT = .050 | GUIDELINE = 100.(A4) | |
| JAN | 162.400 | 139.200 | 38.280 | 67.280 | 69.600 | 80.040 |
| FEB | 71.920 | 44.080 | 139.200 | 88.160 | 39.440 | 34.800 |
| MAR | 374.680 | 150.800 | 197.200 | 185.600 | 44.080 | 45.240 |
| APR | 336.400 | 77.720 | 324.800 | 88.160 | 45.240 | 40.600 |
| MAY | 120.000 | 180.000 | 170.000 | 290.000 | 110.000 | 140.000 |
| JUL | 220.000 | 300.000 | 320.000 | 310.000 | 180.000 | 210.000 |
| | 170.000 | 260.000 | . | . | 190.000 | 240.000 |
| AUG | 130.000 | 190.000 | 120.000 | 120.000 | ISH | 160.000 |
| SEP | 160.000 | 140.000 | 100.000 | 92.000 | 77.000 | 76.000 |
| OCT | 83.000 | 150.000 | 110.000 | 110.000 | 64.000 | 74.000 |
| NOV | 130.000 | 210.000 | . | 380.000 | 55.000 | 63.000 |
| DEC | 55.000 | 86.000 | 160.000 | 180.000 | 50.000 | 49.000 |
| ARSENIC (UG/L ) | | | | DET'N LIMIT = 0.050 | GUIDELINE = 50.0 (A1) | |
| JAN | BDL | BDL | BDL | BDL | BDL | BDL |
| FEB | .540 <T | .190 <T | .430 <T | .350 <T | .350 <T | .360 <T |
| MAR | .540 <T | .070 <T | .490 <T | .530 <T | BDL | BDL |
| APR | .640 <T | .230 <T | .610 <T | .450 <T | .110 <T | .200 <T |
| MAY | .780 <T | .290 <T | .240 <T | BDL | BDL | .140 <T |
| JUL | 1.300 | 1.000 <T | .670 <T | .770 <T | .510 <T | .630 <T |
| | 1.000 <T | .520 <T | . | . | .490 <T | .540 <T |
| AUG | 1.200 | .810 <T | .870 <T | .690 <T | ISH | .760 <T |
| SEP | 1.000 <T | .720 <T | .530 <T | .340 <T | .520 <T | .540 <T |
| OCT | .620 <T | .590 <T | .400 <T | .360 <T | .320 <T | .310 <T |
| NOV | .760 <T | .440 <T | . | .610 <T | .560 <T | .500 <T |
| DEC | .980 <T | 1.200 | .900 <T | 1.100 | 1.200 | .810 <T |
| BARIUM (UG/L ) | | | | DET'N LIMIT = 0.020 | GUIDELINE = 1000. (A1) | |
| JAN | 31.000 | 30.000 | 29.000 | 28.000 | 30.000 | 29.000 |
| FEB | 43.000 | 40.000 | 40.000 | 40.000 | 38.000 | 38.000 |
| MAR | 33.700 | 22.000 | 18.000 | 18.000 | 26.000 | 25.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | 26.000 | 21.000 | 22.000 | 22.000 | 26.000 | 23.000 |
| MAY | 37.000 | 33.000 | 32.000 | 32.000 | 37.000 | 36.000 |
| JUL | 37.000 | 33.000 | 32.000 | 32.000 | 32.000 | 33.000 |
| | 40.000 | 36.000 | . | . | 37.000 | 36.000 |
| AUG | 40.000 | 35.000 | 37.000 | 37.000 | ISN | 34.000 |
| SEP | 39.000 | 36.000 | 34.000 | 33.000 | 35.000 | 34.000 |
| OCT | 34.000 | 33.000 | 33.000 | 31.000 | 32.000 | 32.000 |
| NOV | 33.000 | 26.000 | . | 27.000 | 28.000 | 28.000 |
| DEC | 38.000 | 33.000 | 35.000 | 34.000 | 34.000 | 33.000 |
| BORON (UG/L ) | | | DET'N LIMIT = 0.200 GUIDELINE = 5000. (A1) | | | |
| JAN | 76.000 | 74.000 | 72.000 | 63.000 | 68.000 | 75.000 |
| FEB | 170.000 | 190.000 | 160.000 | 170.000 | 170.000 | 180.000 |
| MAR | 435.000 | 260.000 | 220.000 | 220.000 | 260.000 | 250.000 |
| APR | 190.000 | 360.000 | 340.000 | 150.000 | 380.000 | 400.000 |
| MAY | 89.000 | 85.000 | 67.000 | 81.000 | 89.000 | 92.000 |
| JUL | 86.000 | 89.000 | 81.000 | 83.000 | 91.000 | 94.000 |
| | 91.000 | 87.000 | . | . | 88.000 | 97.000 |
| AUG | 130.000 | 130.000 | 120.000 | 110.000 | ISN | 120.000 |
| SEP | 93.000 | 96.000 | 83.000 | 63.000 | 96.000 | 74.000 |
| OCT | 50.000 | 53.000 | 56.000 | 53.000 | 56.000 | 51.000 |
| NOV | 35.000 | 35.000 | . | 36.000 | 38.000 | 38.000 |
| DEC | 48.000 | 50.000 | 50.000 | 47.000 | 50.000 | 47.000 |
| BERYLLIUM (UG/L ) | | | DET'N LIMIT = 0.010 GUIDELINE = N/A | | | |
| JAN | .140 <T | .050 <T | .100 <T | .050 <T | .050 <T | .040 <T |
| FEB | .060 <T | .310 <T | .320 <T | .140 <T | .290 <T | .260 <T |
| MAR | .600 | .200 <T | .090 <T | .120 <T | .350 <T | .310 <T |
| APR | .160 <T | .250 <T | .310 <T | .060 <T | .310 <T | .330 <T |
| MAY | .130 <T | .160 <T | BDL | .130 <T | .210 <T | .080 <T |
| JUL | .180 <T | .220 <T | .170 <T | .150 <T | .170 <T | .240 <T |
| | .110 <T | .140 <T | . | . | .070 <T | .140 <T |
| AUG | .190 <T | .210 <T | .170 <T | .160 <T | ISN | .290 <T |
| SEP | .080 <T | .080 <T | .020 <T | BDL | .030 <T | BDL |
| OCT | BDL | BDL | BDL | BDL | BDL | .020 <T |
| NOV | BDL | BDL | . | BDL | BDL | BDL |
| DEC | BDL | BDL | BDL | BDL | BDL | BDL |
| CADMIUM (UG/L ) | | | DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1) | | | |
| JAN | .070 <T | BDL | .070 <T | BDL | .300 <T | BDL |
| FEB | .080 <T | BDL | .110 <T | BDL | .480 <T | .130 <T |
| MAR | .230 <T | BDL | BDL | BDL | .180 <T | BDL |
| APR | .130 <T | BDL | .060 <T | .120 <T | .430 <T | .080 <T |
| MAY | .080 <T | BDL | BDL | .060 <T | .600 | .260 <T |
| JUL | BDL | BDL | .060 <T | BDL | .910 | .080 <T |
| | .190 <T | .190 <T | . | . | .610 | .100 <T |
| AUG | BDL | BDL | .080 <T | .070 <T | ISN | .070 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| SEP | BDL | BDL | BDL | BDL | 2.000 | BDL |
| OCT | BDL | BDL | BDL | BDL | .170 <T | BDL |
| NOV | BDL | BDL | . | .060 <T | .640 | BDL |
| DEC | .090 <T | BDL | BDL | BDL | .800 | .070 <T |
| COBALT (UG/L ) | | | | DET'N LIMIT = 0.020 GUIDELINE = N/A | | |
| JAN | .340 <T | .270 <T | .240 <T | .180 <T | .260 <T | .280 <T |
| FEB | .200 <T | .190 <T | .220 <T | .220 <T | .300 <T | .250 <T |
| MAR | .540 <T | .190 <T | .140 <T | .160 <T | .100 <T | .200 <T |
| APR | .270 <T | .050 <T | .080 <T | .030 <T | .060 <T | .080 <T |
| MAY | .580 <T | .550 <T | .570 <T | .470 <T | .620 <T | .610 <T |
| JUL | .440 <T | .220 <T | .270 <T | .230 <T | .310 <T | .210 <T |
| | .380 <T | .290 <T | . | . | .270 <T | .240 <T |
| AUG | .420 <T | .340 <T | .340 <T | .340 <T | ISN | .300 <T |
| SEP | .260 <T | .160 <T | .140 <T | .170 <T | .120 <T | .130 <T |
| OCT | .350 <T | .210 <T | .270 <T | .230 <T | .260 <T | .330 <T |
| NOV | .340 <T | .210 <T | . | .140 <T | .200 <T | .200 <T |
| DEC | .050 <T | .060 <T | .030 <T | BDL | .090 <T | BDL |
| CHROMIUM (UG/L ) | | | | DET'N LIMIT = 0.100 GUIDELINE = 50. (A1) | | |
| JAN | 9.300 | 8.700 | 8.500 | 7.400 | 7.200 | 8.400 |
| FEB | 13.000 | 14.000 | 12.000 | 12.000 | 11.000 | 13.000 |
| MAR | 14.290 | 7.800 | 6.500 | 6.400 | 7.300 | 7.300 |
| APR | 6.500 | 12.000 | 11.000 | 4.400 | 12.000 | 12.000 |
| MAY | 18.000 | 15.000 | 11.000 | 16.000 | 15.000 | 16.000 |
| JUL | 12.000 | 12.000 | 9.300 | 9.600 | 10.000 | 11.000 |
| | 9.300 | 6.800 | . | . | 7.600 | 9.200 |
| AUG | 8.700 | 8.300 | 7.500 | 6.900 | ISN | 6.700 |
| SEP | 10.000 | 9.400 | 6.500 | 1.700 | 7.300 | 3.800 |
| OCT | .960 <T | .500 <T | .540 <T | .630 <T | .680 <T | .350 <T |
| NOV | .420 <T | .430 <T | . | .900 <T | .330 <T | .470 <T |
| DEC | .670 <T | .810 <T | .640 <T | BDL | .610 <T | .560 <T |
| COPPER (UG/L ) | | | | DET'N LIMIT = .100 GUIDELINE = 1000 (A3) | | |
| JAN | 3.600 | 2.500 | 16.000 | 14.000 | 450.000 | 28.000 |
| FEB | 5.200 | 3.300 | 11.000 | 15.000 | 370.000 | 22.000 |
| MAR | 4.410 | 3.000 | 3.800 | 25.000 | 270.000 | 24.000 |
| APR | 3.500 | 2.900 | 2.900 | 12.000 | 340.000 | 25.000 |
| MAY | 3.700 | 2.900 | 9.200 | 26.000 | 110.000 | 15.000 |
| JUL | 3.700 | 2.800 | 12.000 | 40.000 | 120.000 | 15.000 |
| | 3.500 | 3.100 | . | . | 90.000 | 9.200 |
| AUG | 3.100 | 2.700 | 6.000 | 31.000 | ISN | 12.000 |
| SEP | 2.700 | 3.000 | 8.600 | 24.000 | 150.000 | 12.000 |
| OCT | 2.600 | 2.400 | 9.100 | 28.000 | 120.000 | 9.500 |
| NOV | 3.000 | 2.000 | . | 8.500 | 240.000 | 22.000 |
| DEC | 2.200 <T | 2.000 <T | 12.000 | 58.000 | 310.000 | 23.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| **IRON (UG/L )** | | | DET'N LIMIT = 4.000 GUIDELINE = 300. (A3) | | | |
| JAN | 140.000 | 15.000 <T | 14.000 <T | 14.000 <T | 18.000 <T | 25.000 <T |
| FEB | 82.000 | BDL | 15.000 <T | 12.000 <T | 5.800 <T | BDL |
| MAR | 311.000 | 33.000 <T | 36.000 <T | 32.000 <T | 9.400 <T | 12.000 <T |
| APR | 310.000 | 7.100 <T | 70.000 | 8.000 <T | BDL | 5.700 <T |
| MAY | 160.000 | BDL | 11.000 <T | 12.000 <T | 15.000 <T | 13.000 <T |
| JUL | 280.000 | BDL | 15.000 <T | 12.000 <T | 12.000 <T | 9.400 <T |
| | 220.000 | BDL | . | . | 6.300 <T | 7.400 <T |
| AUG | 190.000 | BDL | 9.100 <T | 9.800 <T | ISM | 12.000 <T |
| SEP | 210.000 | BDL | 11.000 <T | 5.700 <T | 8.800 <T | 8.900 <T |
| OCT | 160.000 | 13.000 <T | 22.000 <T | 24.000 <T | 12.000 <T | 21.000 <T |
| NOV | 150.000 | 18.000 <T | . | 38.000 <T | 9.300 <T | 13.000 <T |
| DEC | 88.000 | BDL | 15.000 <T | 18.000 <T | BDL | BDL |
| **MERCURY (UG/L )** | | | DET'N LIMIT = 0.010 GUIDELINE = 1.000 (A1) | | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | .030 <T | .030 <T | . | .020 <T | . | BDL |
| MAR | BDL | BDL | . | .020 <T | . | .020 <T |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | .020 <T | . | BDL | . | BDL |
| NOV | .020 <T | .020 <T | . | BDL | . | .020 <T |
| DEC | .020 <T | IRE | . | IRE | . | IRE |
| **MANGANESE (UG/L )** | | | DET'N LIMIT = .050 GUIDELINE = 50.0 (A3) | | | |
| JAN | 8.000 | 1.700 | 1.800 | 2.100 | 2.100 | 2.200 |
| FEB | 11.000 | 1.800 | 2.500 | 2.400 | 2.100 | 2.000 |
| MAR | 31.100 | 2.300 | 2.300 | 2.100 | 2.000 | 2.100 |
| APR | 38.000 | 2.000 | 3.000 | 2.000 | 1.700 | 1.600 |
| MAY | 45.000 | 2.500 | 3.800 | 4.100 | 2.400 | 2.400 |
| JUL | 61.000 | 2.500 | 3.400 | 3.300 | 2.600 | 2.700 |
| | 35.000 | .820 | . | . | 1.300 | 1.300 |
| AUG | 33.000 | 1.400 | 2.200 | 2.100 | ISM | 1.300 |
| SEP | 23.000 | 1.200 | 1.700 | 1.200 | 1.500 | 1.300 |
| OCT | 18.000 | 2.000 | 2.500 | 2.400 | 1.300 | 1.700 |
| NOV | 18.000 | 3.100 | . | 3.500 | 3.100 | 3.100 |
| DEC | 7.800 | 2.100 | 2.700 | 2.700 | 2.400 | 2.300 |
| **MOLYBDENUM (UG/L )** | | | DET'N LIMIT = 0.020 GUIDELINE = N/A | | | |
| JAN | .750 | .660 | .630 | .590 | .820 | .870 |
| FEB | 1.100 | 1.100 | 1.300 | 1.200 | 1.100 | 1.300 |
| MAR | 1.060 | .940 | .850 | .860 | 1.300 | 1.000 |
| APR | .460 <T | .640 | .670 | .650 | .850 | .770 |
| MAY | 1.600 | 1.900 | 1.700 | 1.700 | 2.400 | 2.200 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| JUL | 1.300 | 1.500 | 1.400 | 1.500 | 1.500 | 1.400 |
| | 1.900 | 2.200 | . | . | 2.300 | 2.000 |
| AUG | 2.000 | 2.300 | 2.200 | 2.100 | ISM | 2.100 |
| SEP | 2.100 | 2.400 | 2.300 | 2.400 | 1.100 | 2.100 |
| OCT | 1.300 | 1.600 | 1.400 | 1.300 | 1.600 | 1.600 |
| NOV | .990 | 1.100 | . | 1.100 | 1.000 | 1.000 |
| DEC | 1.300 | 1.500 | 1.500 | 1.400 | 1.400 | 1.400 |
| NICKEL (UG/L ) | | | | DET'N LIMIT = 0.100 GUIDELINE = 50. (F3) | | |
| JAN | 2.300 | 1.800 <T | 2.500 | 1.000 <T | 3.500 | 1.600 <T |
| FEB | 4.100 | 3.800 | 3.600 | 3.000 | 5.300 | 4.100 |
| MAR | 3.510 | .470 <T | .390 <T | .120 <T | 2.000 <T | .930 <T |
| APR | 1.700 <T | BDL | .570 <T | .170 <T | 2.100 | .650 <T |
| MAY | 4.700 | 4.700 | 4.300 | 4.100 | 6.500 | 6.800 |
| JUL | 2.400 | .570 <T | 2.800 | 1.300 <T | 2.300 | 1.600 <T |
| | 1.700 <T | .460 <T | . | . | 3.200 | .360 <T |
| AUG | 3.800 | 2.400 | 2.800 | 2.300 | ISM | 2.600 |
| SEP | 2.800 | 2.000 <T | 2.400 | 1.800 <T | 4.500 | 2.500 |
| OCT | 2.600 | 2.100 | 3.300 | 3.400 | 3.800 | 2.800 |
| NOV | 2.400 | 1.200 <T | . | 1.200 <T | 1.700 <T | .860 <T |
| DEC | 1.400 <T | 1.500 <T | 1.700 <T | 1.400 <T | 3.800 | 2.300 |
| LEAD (UG/L ) | | | | DET'N LIMIT = 0.050 GUIDELINE = 50. (A1) | | |
| JAN | .850 | .130 <T | 18.000 | 2.300 | 140.000 | 7.000 |
| FEB | 2.400 | .240 | 27.000 | 3.700 | 90.000 | 5.900 |
| MAR | 2.990 | .610 | 3.300 | 1.700 | 70.000 RRV | 4.600 |
| APR | 2.400 | .250 | 2.000 | 1.200 | 99.000 | 6.200 |
| MAY | 1.800 | .350 | 1.800 | .870 | 66.000 | 6.900 |
| JUL | 2.600 | .430 | 2.000 | .890 | 71.000 | 8.100 |
| | 3.000 | .240 | . | . | 33.000 | 3.200 |
| AUG | 1.900 | .540 | 1.300 | .870 | ISM | 8.000 |
| SEP | 1.900 | .260 | 1.100 | .460 | 130.000 | 6.200 |
| OCT | 2.400 | .130 <T | .990 | .410 | 39.000 | 3.600 |
| NOV | 1.800 | .170 <T | . | .270 | 170.000 RRV | 9.400 |
| DEC | 1.500 | .270 <T | .580 | .250 <T | 100.000 RRV | 5.800 |
| ANTIMONY (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 146. (D4) | | |
| JAN | .520 | .440 | .420 | .450 | .500 | .400 |
| FEB | .940 | .960 | .860 | .920 | 1.000 | .880 |
| MAR | .900 | .840 | .770 | .900 | .970 | .770 |
| APR | .370 | .560 | .460 | .520 | .570 | .450 |
| MAY | .940 | 1.000 | .830 | .650 | .860 | .650 |
| JUL | .910 | .840 | .900 | .940 | .990 | .900 |
| | .800 | .850 | . | . | .970 | .850 |
| AUG | 1.000 | 1.000 | .970 | .910 | ISM | 1.100 |
| SEP | .750 | .720 | .740 | .670 | .870 | .780 |
| OCT | .440 | .570 | .550 | .530 | .570 | .620 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| NOV | .600 | .600 | . | .570 | .640 | .620 |
| DEC | .470 <T | .720 | .750 | .510 | .540 | .650 |
| SELENIUM (UG/L ) | | | DET'N LIMIT = 0.200 GUIDELINE = 10. (A1) | | | |
| JAN | BDL | 1.700 <T | 1.000 <T | 1.300 <T | 1.000 <T | 1.700 <T |
| FEB | 2.200 <T | 2.200 <T | 2.400 <T | 3.300 <T | 4.900 <T | 5.600 <T |
| MAR | 3.500 <T | 2.700 <T | 2.100 <T | 5.100 <T | 1.900 <T | 4.900 <T |
| APR | 3.400 <T | 3.600 <T | 1.800 <T | 3.700 <T | 3.600 <T | 3.500 <T |
| MAY | .930 <T | 10.000 <T | 7.900 <T | 8.600 <T | 9.900 <T | 12.000 |
| JUL | BDL | 5.400 | 5.300 | 5.700 | 5.300 | 5.700 |
| | 2.400 <T | 6.200 | . | . | 5.100 | 5.500 |
| AUG | BDL | 2.900 <T | 2.600 <T | 2.000 <T | ISM | 3.500 <T |
| SEP | BDL | 2.500 <T | 1.700 <T | 1.700 <T | 1.700 <T | 2.400 <T |
| OCT | 1.100 <T | 1.200 <T | BDL | BDL | BDL | 1.100 <T |
| NOV | BDL | BDL | . | BDL | BDL | BDL |
| DEC | 1.200 <T | 1.900 <T | 1.600 <T | 1.300 <T | BDL | 1.600 <T |
| STRONTIUM (UG/L ) | | | DET'N LIMIT = .050 GUIDELINE = N/A | | | |
| JAN | 330.000 | 350.000 | 360.000 | 370.000 | 330.000 | 330.000 |
| FEB | 670.000 | 730.000 | 700.000 | 710.000 | 660.000 | 710.000 |
| MAR | 538.000 | 270.000 | 180.000 | 180.000 | 400.000 | 370.000 |
| APR | 190.000 | 210.000 | 210.000 | 210.000 | 340.000 | 260.000 |
| MAY | 570.000 | 570.000 | 480.000 | 490.000 | 560.000 | 560.000 |
| JUL | 550.000 | 560.000 | 590.000 | 590.000 | 570.000 | 590.000 |
| | 740.000 | 730.000 | . | . | 760.000 | 700.000 |
| AUG | 840.000 | 800.000 | 840.000 | 810.000 | ISM | 790.000 |
| SEP | 810.000 | 830.000 | 830.000 | 810.000 | 740.000 | 730.000 |
| OCT | 650.000 | 630.000 | 630.000 | 610.000 | 630.000 | 640.000 |
| NOV | 470.000 | 460.000 | . | 470.000 | 430.000 | 430.000 |
| DEC | 720.000 | 680.000 | 720.000 | 710.000 | 660.000 | 670.000 |
| TITANIUM (UG/L ) | | | DET'N LIMIT = .050 GUIDELINE = N/A | | | |
| JAN | 15.000 | 9.400 | 7.700 | 8.200 | 8.100 | 8.300 |
| FEB | 13.000 | 9.900 | 11.000 | 10.000 | 9.600 | 11.000 |
| MAR | 29.600 | 12.000 | 11.000 | 11.000 | 11.000 | 11.000 |
| APR | 20.000 | 9.700 | 11.000 | 9.400 | 11.000 | 9.900 |
| MAY | 12.000 | 8.200 | 7.600 | 7.400 | 8.100 | 8.300 |
| JUL | 15.000 | 10.000 | 9.600 | 9.700 | 10.000 | 9.900 |
| | 10.000 | 8.400 | . | . | 6.900 | 7.800 |
| AUG | 14.000 | 10.000 | 10.000 | 10.000 | ISM | 9.800 |
| SEP | 16.000 | 8.700 | 9.400 | 8.900 | 9.300 | 8.400 |
| OCT | 6.600 | 5.400 | 5.600 | 5.000 | 5.200 | 5.100 |
| NOV | 12.000 | 9.000 | . | 8.800 | 7.900 | 7.700 |
| DEC | 13.000 | 9.900 | 11.000 | 11.000 | 9.800 | 10.000 |
| THALLIUM (UG/L ) | | | DET'N LIMIT = .010 GUIDELINE = 13. (D4) | | | |
| JAN | BDL | BDL | BDL | BDL | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| FEB | .070 <T | BDL | BDL | BDL | BDL | BDL |
| MAR | .040 <T | BDL | BDL | BDL | .020 <T | BDL |
| APR | .030 <T | .030 <T | BDL | BDL | BDL | .030 <T |
| MAY | BDL | BDL | BDL | BDL | BDL | BDL |
| JUL | BDL | BDL | BDL | BDL | .030 <T | BDL |
| | .040 <T | .040 <T | . | . | .020 <T | .070 <T |
| AUG | .070 <T | .040 <T | .080 <T | .080 <T | ISM | .070 <T |
| SEP | .030 <T | BDL | .040 <T | BDL | .050 <T | .030 <T |
| OCT | .020 <T | .020 <T | BDL | .030 <T | BDL | BDL |
| NOV | .030 <T | .050 <T | . | BDL | .040 <T | .020 <T |
| DEC | BDL | BDL | BDL | BDL | BDL | BDL |
| URANIUM (UG/L ) | | | | DET'N LIMIT = .020 | GUIDELINE = 100.(B1) | |
| JAN | .970 | 1.000 | 1.100 | 1.100 | .950 | .930 |
| FEB | 1.300 | 1.400 | 1.400 | 1.400 | 1.300 | 1.200 |
| MAR | .790 | .660 | .690 | .620 | .860 | .860 |
| APR | 1.100 | 1.100 | 1.000 | 1.100 | 1.100 | 1.100 |
| MAY | 1.100 | 1.200 | 1.100 | 1.100 | .930 | 1.100 |
| JUL | .960 | 1.200 | 1.100 | 1.100 | 1.200 | 1.100 |
| | .910 | .990 | . | . | 1.100 | 1.000 |
| AUG | .820 | .930 | .930 | .780 | ISM | .840 |
| SEP | .690 | .680 | .680 | .720 | .750 | .700 |
| OCT | .890 | .990 | 1.000 | 1.100 | .940 | .920 |
| NOV | 1.100 | 1.000 | . | 1.000 | 1.100 | 1.100 |
| DEC | 1.200 | 1.300 | 1.300 | 1.300 | 1.300 | 1.400 |
| VANADIUM (UG/L ) | | | | DET'N LIMIT = .050 | GUIDELINE = N/A | |
| JAN | .810 | 1.400 | 1.200 | 1.100 | 1.400 | 1.400 |
| FEB | .340 <T | .830 | .860 | .820 | .870 | .880 |
| MAR | 1.090 | 1.600 | 1.800 | 1.800 | 1.300 | 1.300 |
| APR | 1.100 | 1.400 | 1.800 | 1.700 | 1.300 | 1.500 |
| MAY | 1.100 | 1.500 | 1.300 | 1.600 | 1.500 | 1.700 |
| JUL | 1.400 | 1.700 | 1.700 | 1.700 | 1.600 | 1.700 |
| | .990 | 1.600 | . | . | 1.400 | 1.600 |
| AUG | 1.100 | 1.600 | 1.500 | 1.500 | ISM | 1.500 |
| SEP | .910 | 1.300 | 1.200 | 1.300 | 1.200 | 1.300 |
| OCT | .430 <T | .610 | .740 | .780 | .730 | .770 |
| NOV | .820 | 1.700 | . | 1.900 | 1.700 | 1.800 |
| DEC | .840 | 1.500 | 1.500 | 1.400 | 1.700 | 1.500 |
| ZINC (UG/L ) | | | | DET'N LIMIT = .001 | GUIDELINE = 5000. (A3) | |
| JAN | 13.000 | 8.900 | 24.000 | 8.100 | 88.000 | 10.000 |
| FEB | 15.000 | 14.000 | 24.000 | 13.000 | 75.000 | 15.000 |
| MAR | 17.090 | 7.100 | 5.700 | 4.500 | 60.000 | 9.200 |
| APR | 15.000 | 6.800 | 6.500 | 4.400 | 47.000 | 8.200 |
| MAY | 14.000 | 8.000 | 14.000 | 7.400 | 34.000 | 9.600 |
| JUL | 14.000 | 7.100 | 12.000 | 6.700 | 40.000 | 9.400 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| JUL | 11.000 | 6.400 | . | . | 45.000 | 7.000 |
| AUG | 11.000 | 6.800 | 11.000 | 7.300 | ISM | 8.700 |
| SEP | 12.000 | 8.700 | 19.000 | 8.100 | 64.000 | 9.600 |
| OCT | 13.000 | 8.100 | 19.000 | 8.600 | 44.000 | 8.900 |
| NOV | 9.900 | 6.000 | . | 6.500 | 45.000 | 8.800 |
| DEC | 11.000 | 12.000 | 14.000 | 9.500 | 61.000 | 12.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| CHLOROAROMATICS | | | | | | |
| HEXACHLOROETHANE (NG/L ) | | | DET'N LIMIT = 1.000 | | GUIDELINE = 1900 (D4) | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | 10.000 | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | ILA | . | ILA |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| BENZO(A) PYRENE (NG/L) PAH | | | DET'N LIMIT = 5.000 | | GUIDELINE = 10 (B1) | |
| JAN | BDL | BDL | . | . | . | . |
| FEB | BDL | BDL | . | . | . | . |
| MAR | BDL | BDL | . | . | . | . |
| APR | IQU | IQU | . | . | . | . |
| MAY | IQU | IQU | . | . | . | . |
| JUL | IQU | IQU | . | . | . | . |
| | IQU | IQU | . | . | . | . |
| AUG | IQU | IQU | . | . | . | . |
| SEP | 8.000 ARO | IQU | . | . | . | . |
| OCT | IQU | IQU | . | . | . | . |
| NOV | BDL | BDL | . | . | . | . |
| DEC | BDL | BDL | . | . | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| **PESTICIDES & PCB** | | | | | | |
| **ALPHA BHC (NG/L ) DET'N LIMIT = 1.000 GUIDELINE = 700 (G)** | | | | | | |
| JAN | BDL | BDL | . | BDL | . | 2.000 <T |
| FEB | BDL | BDL | . | 3.000 <T | . | BDL |
| MAR | BDL | BDL | . | 2.000 <T | . | BDL |
| APR | 1.000 <T | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | 1.000 <T | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | 1.000 <T | . | 2.000 <T |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | 1.000 <T | . | BDL |
| DEC | BDL | BDL | . | ILA | . | ILA |
| **LINDANE (NG/L ) DET'N LIMIT = 1.000 GUIDELINE = 4000 (A1)** | | | | | | |
| JAN | 1.000 <T | 2.000 <T | . | 4.000 <T | . | 4.000 <T |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | 3.000 <T | 3.000 <T | . | 3.000 <T | . | 3.000 <T |
| APR | 2.000 <T | 4.000 <T | . | 1.000 <T | . | 1.000 <T |
| MAY | 4.000 <T | 5.000 <T | . | 5.000 <T | . | 5.000 <T |
| JUL | 3.000 <T | BDL | . | BDL | . | 7.000 <T |
| | 2.000 <T | 3.000 <T | . | . | . | 3.000 <T |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | 3.000 <T | 3.000 <T | . | 6.000 <T | . | 4.000 <T |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | 3.000 <T | . | 3.000 <T | . | 2.000 <T |
| DEC | 3.000 <T | 4.000 <T | . | ILA | . | ILA |
| **ATRAZINE (NG/L ) DET'N LIMIT = 50.00 GUIDELINE = 60000 (B3)** | | | | | | |
| JAN | BDL | 170.000 <T | . | 140.000 <T | . | 140.000 <T |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | 200.000 <T | 210.000 <T | . | 600.000 | . | 300.000 <T |
| APR | 470.000 <T | 480.000 <T | . | 380.000 <T | . | 440.000 <T |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | 450.000 <T | 400.000 <T | . | 310.000 <T | . | 360.000 <T |
| | 320.000 <T | 290.000 <T | . | . | . | 480.000 <T |
| AUG | BDL | 530.000 | . | . | . | . |
| SEP | BDL | 140.000 <T | . | . | . | . |
| OCT | 320.000 <T | 360.000 <T | . | . | . | . |
| NOV | 480.000 <T | 475.000 <T | . | . | . | . |
| DEC | 270.000 <T | 100.000 <T | . | . | . | . |
| **D-ETNYL ATRAZINE (NG/L ) DET'N LIMIT = N/A GUIDELINE = N/A** | | | | | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | BDL | BDL | . | BDL | . | 220.000 <T |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | 200.000 <T | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | . | . | . |
| SEP | BDL | BDL | . | . | . | . |
| OCT | 330.000 <T | 340.000 <T | . | . | . | . |
| NOV | 450.000 <T | BDL | . | . | . | . |
| DEC | 370.000 <T | 340.000 <T | . | . | . | . |
| METRIBUZIN (SENCOR) (NG/L ) | | | DET'N LIMIT = 100.00 | | GUIDELINE = 80000 (82) | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | . | . | . |
| SEP | BDL | BDL | . | . | . | . |
| OCT | BDL | BDL | . | . | . | . |
| NOV | BDL | 530.000 <T | . | . | . | . |
| DEC | BDL | BDL | . | . | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| PHENOLICS (UG/L PHENOLICS) | | | DET'N LIMIT = 0.2 | | GUIDELINE = 2.00 (A3) | |
| JAN | 4.000 | 4.000 | . | . | . | . |
| FEB | 3.800 | 3.200 | . | . | . | . |
| MAR | 4.800 | 5.200 | . | . | . | . |
| APR | 3.600 | 2.600 | . | . | . | . |
| MAY | 1.600 | 1.600 | . | . | . | . |
| JUL | 2.400 | 1.600 | . | . | . | . |
| | 3.600 | 1.600 | . | . | . | . |
| AUG | 3.000 | INR | . | . | . | . |
| SEP | 3.200 | 2.600 | . | . | . | . |
| OCT | 4.000 | 5.000 | . | . | . | . |
| NOV | 1.200 | 1.800 | . | . | . | . |
| DEC | 1.000 | 1.000 | . | . | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| VOLATILES | | | | | | |
| BENZENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 5.0 (81) | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | .050 <T | BDL | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| TOLUENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 24.0 (84) | | |
| JAN | BDL | BDL | . | .050 <T | . | .100 <T |
| FEB | .050 <T | .100 <T | . | .050 <T | . | BDL |
| MAR | BDL | BDL | . | .100 <T | . | .100 <T |
| APR | BDL | .050 <T | . | BDL | . | BDL |
| MAY | BDL | .100 <T | . | .100 <T | . | .100 <T |
| JUL | .050 <T | .050 <T | . | .050 <T | . | BDL |
| | BDL | BDL | . | . | . | .100 <T |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | .050 <T |
| DEC | BDL | BDL | . | .050 <T | . | .050 <T |
| ETHYLBENZENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 2.4 (84) | | |
| JAN | BDL | .050 <T | . | .050 <T | . | BDL |
| FEB | .100 <T | .050 <T | . | .050 <T | . | BDL |
| MAR | BDL | BDL | . | .050 <T | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | .050 <T | . | BDL |
| JUL | BDL | .050 <T | . | BDL | . | .050 <T |
| | .050 <T | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | .050 <T | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| M-XYLENE (UG/L ) | | | | DET'N LIMIT = .100 GUIDELINE = 300 (84) | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | .100 <T | . | BDL |
| JUL | BDL | .200 <T | . | BDL | . | .100 <T |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | .400 <T | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| O-XYLENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 300 (B4) | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | .050 <T | . | BDL | . | BDL |
| MAR | BDL | BDL | . | .050 <T | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | .050 <T | . | BDL |
| JUL | BDL | .100 <T | . | BDL | . | .050 <T |
| | BDL | BDL | . | . | . | .050 <T |
| AUG | BDL | BDL | . | .050 <T | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| STYRENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 46.5 (D2) | | |
| JAN | .050 <T | .250 <T | . | .100 <T | . | .050 <T |
| FEB | .300 <T | .200 <T | . | .200 <T | . | BDL |
| MAR | BDL | BDL | . | .350 <T | . | .150 <T |
| APR | BDL | .100 <T | . | .050 <T | . | .050 <T |
| MAY | .050 <T | .150 <T | . | .150 <T | . | .050 <T |
| JUL | .150 <T | .100 <T | . | .100 <T | . | .100 <T |
| | .150 <T | .050 <T | . | . | . | .100 <T |
| AUG | BDL | .050 <T | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | .050 <T | . | BDL |
| NOV | BDL | .050 <T | . | .100 <T | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| CHLOROFORM (UG/L ) | | | | DET'N LIMIT = .100 GUIDELINE = 350 (A1+) | | |
| JAN | BDL | 93.400 | . | 90.600 | . | 104.100 |
| FEB | BDL | 77.300 | . | 61.000 | . | 75.000 |
| MAR | BDL | 115.000 | . | 122.000 | . | 115.000 |
| APR | BDL | 110.000 | . | 125.000 | . | 123.000 |
| MAY | BDL | 165.000 | . | 155.000 | . | 175.000 |
| JUL | .900 <T | 190.000 | . | 170.000 | . | 180.000 |
| | BDL | 240.000 | . | . | . | 173.000 |
| AUG | BDL | 155.100 | . | 133.000 | . | 143.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| SEP | BDL | 139.000 | . | 104.000 | . | 116.500 |
| OCT | BDL | 154.200 | . | 143.300 | . | 138.500 |
| NOV | .200 <T | 109.200 | . | 100.100 | . | 106.700 |
| DEC | .300 <T | 98.000 | . | 94.800 | . | 100.100 |
| 111, TRICHLOROETHANE (UG/L ) | | | | DET'N LIMIT = .020 | GUIDELINE = 200 (D1) | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | .060 <T | BDL | . | BDL | . | .040 <T |
| MAR | BDL | BDL | . | .020 <T | . | .020 <T |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | .020 <T |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | .020 <T | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | .020 <T | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| DICHLOROBROMOMETHANE (UG/L ) | | | | DET'N LIMIT = .050 | GUIDELINE = 350 (A1+) | |
| JAN | BDL | 11.500 | . | 11.450 | . | 12.000 |
| FEB | BDL | 14.600 APS | . | 12.050 APS | . | 14.300 |
| MAR | BDL | 6.100 | . | 6.400 | . | 10.400 |
| APR | BDL | 10.700 | . | 7.000 APS | . | 9.850 |
| MAY | BDL | 22.900 | . | 21.700 | . | 22.200 APS |
| JUL | BDL | 26.000 APS | . | 22.700 | . | 26.350 |
| | BDL | 30.500 | . | . | . | 25.800 |
| AUG | BDL | 25.250 | . | 22.950 APS | . | 25.000 APS |
| SEP | BDL | 26.050 | . | 22.000 | . | 22.300 |
| OCT | BDL | 20.250 | . | 20.150 | . | 19.900 |
| NOV | BDL | 11.500 | . | 11.500 | . | 10.900 |
| DEC | BDL | 13.750 | . | 13.000 | . | 13.000 |
| CHLORODIBROMOMETHANE (UG/L ) | | | | DET'N LIMIT = .100 | GUIDELINE = 350 (A1+) | |
| JAN | BDL | .500 <T | . | .700 <T | . | .600 <T |
| FEB | BDL | 1.600 | . | 1.200 APS | . | 1.700 APS |
| MAR | BDL | .100 <T | . | .300 <T | . | .500 <T |
| APR | BDL | .500 <T | . | BDL | . | .600 <T |
| MAY | BDL | 1.900 | . | 1.700 | . | 1.900 |
| JUL | BDL | 2.100 | . | 1.800 | . | 1.900 |
| | BDL | 2.500 | . | . | . | 2.300 |
| AUG | BDL | 2.600 | . | 2.000 | . | 2.300 APS |
| SEP | BDL | 2.900 | . | 2.500 | . | 2.600 |
| OCT | BDL | 1.300 | . | 2.000 | . | 1.500 |
| NOV | BDL | .600 <T | . | .500 <T | . | .600 <T |
| DEC | BDL | 1.700 | . | 1.200 | . | .900 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | .100 <T | . | BDL |
| JUL | BDL | .200 <T | . | BDL | . | .100 <T |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | .400 <T | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| O-XYLENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 300 (B4) | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | .050 <T | . | BDL | . | BDL |
| MAR | BDL | BDL | . | .050 <T | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | .050 <T | . | BDL |
| JUL | BDL | .100 <T | . | BDL | . | .050 <T |
| | BDL | BDL | . | . | . | .050 <T |
| AUG | BDL | BDL | . | .050 <T | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| STYRENE (UG/L ) | | | | DET'N LIMIT = .050 GUIDELINE = 46.5 (D2) | | |
| JAN | .050 <T | .250 <T | . | .100 <T | . | .050 <T |
| FEB | .300 <T | .200 <T | . | .200 <T | . | BDL |
| MAR | BDL | BDL | . | .350 <T | . | .150 <T |
| APR | BDL | .100 <T | . | .050 <T | . | .050 <T |
| MAY | .050 <T | .150 <T | . | .150 <T | . | .050 <T |
| JUL | .150 <T | .100 <T | . | .100 <T | . | .100 <T |
| | .150 <T | .050 <T | . | . | . | .100 <T |
| AUG | BDL | .050 <T | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | .050 <T | . | BDL |
| NOV | BDL | .050 <T | . | .100 <T | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| CHLOROFORM (UG/L ) | | | | DET'N LIMIT = .100 GUIDELINE = 350 (A1+) | | |
| JAN | BDL | 93.400 | . | 90.600 | . | 104.100 |
| FEB | BDL | 77.300 | . | 61.000 | . | 75.000 |
| MAR | BDL | 115.000 | . | 122.000 | . | 115.000 |
| APR | BDL | 110.000 | . | 125.000 | . | 123.000 |
| MAY | BDL | 165.000 | . | 155.000 | . | 175.000 |
| JUL | .900 <T | 190.000 | . | 170.000 | . | 180.000 |
| | BDL | 240.000 | . | . | . | 173.000 |
| AUG | BDL | 155.100 | . | 133.000 | . | 143.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| SEP | BDL | 139.000 | . | 104.000 | . | 116.500 |
| OCT | BDL | 154.200 | . | 143.300 | . | 138.500 |
| NOV | .200 <T | 109.200 | . | 100.100 | . | 106.700 |
| DEC | .300 <T | 98.000 | . | 94.800 | . | 100.100 |
| 111, TRICHLOROETHANE (UG/L ) | | | DET'N LIMIT = .020 GUIDELINE = 200 (D1) | | | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | .060 <T | BDL | . | BDL | . | .040 <T |
| MAR | BDL | BDL | . | .020 <T | . | .020 <T |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | .020 <T |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | .020 <T | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | .020 <T | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| DICHLOROBROMOMETHANE (UG/L ) | | | DET'N LIMIT = .050 GUIDELINE = 350 (A1+) | | | |
| JAN | BDL | 11.500 | . | 11.450 | . | 12.000 |
| FEB | BDL | 14.600 APS | . | 12.050 APS | . | 14.300 |
| MAR | BDL | 6.100 | . | 6.400 | . | 10.400 |
| APR | BDL | 10.700 | . | 7.000 APS | . | 9.850 |
| MAY | BDL | 22.900 | . | 21.700 | . | 22.200 APS |
| JUL | BDL | 26.000 APS | . | 22.700 | . | 26.350 |
| | BDL | 30.500 | . | . | . | 25.800 |
| AUG | BDL | 25.250 | . | 22.950 APS | . | 25.000 APS |
| SEP | BDL | 26.050 | . | 22.000 | . | 22.300 |
| OCT | BDL | 20.250 | . | 20.150 | . | 19.900 |
| NOV | BDL | 11.500 | . | 11.500 | . | 10.900 |
| DEC | BDL | 13.750 | . | 13.000 | . | 13.000 |
| CHLORODIBROMOMETHANE (UG/L ) | | | DET'N LIMIT = .100 GUIDELINE = 350 (A1+) | | | |
| JAN | BDL | .500 <T | . | .700 <T | . | .600 <T |
| FEB | BDL | 1.600 | . | 1.200 APS | . | 1.700 APS |
| MAR | BDL | .100 <T | . | .300 <T | . | .500 <T |
| APR | BDL | .500 <T | . | BDL | . | .600 <T |
| MAY | BDL | 1.900 | . | 1.700 | . | 1.900 |
| JUL | BDL | 2.100 | . | 1.800 | . | 1.900 |
| | BDL | 2.500 | . | . | . | 2.300 |
| AUG | BDL | 2.600 | . | 2.000 | . | 2.300 APS |
| SEP | BDL | 2.900 | . | 2.500 | . | 2.600 |
| OCT | BDL | 1.300 | . | 2.000 | . | 1.500 |
| NOV | BDL | .600 <T | . | .500 <T | . | .600 <T |
| DEC | BDL | 1.700 | . | 1.200 | . | .900 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM BRANTFORD WTP 1989

| | WATER TREATMENT PLANT | | DISTRIBUTION SYSTEM | | | |
|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW |
| T-CHLOROETHYLENE (UG/L ) | | | | DET'N LIMIT = .050 | GUIDELINE = 10.0 (C2) | |
| JAN | BDL | BDL | . | BDL | . | .100 <T |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | .100 <T |
| JUL | BDL | .100 <T | . | BDL | . | BDL |
| | BDL | BDL | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | .450 <T | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | .050 <T | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| BROMOFORM (UG/L ) | | | | DET'N LIMIT = .200 | GUIDELINE = 350 (A1+) | |
| JAN | BDL | BDL | . | BDL | . | BDL |
| FEB | BDL | BDL | . | BDL | . | BDL |
| MAR | BDL | BDL | . | BDL | . | BDL |
| APR | BDL | BDL | . | BDL | . | BDL |
| MAY | BDL | BDL | . | BDL | . | BDL |
| JUL | BDL | BDL | . | BDL | . | BDL |
| | BDL | .200 <T | . | . | . | BDL |
| AUG | BDL | BDL | . | BDL | . | BDL |
| SEP | BDL | BDL | . | BDL | . | BDL |
| OCT | BDL | BDL | . | BDL | . | BDL |
| NOV | BDL | BDL | . | BDL | . | BDL |
| DEC | BDL | BDL | . | BDL | . | BDL |
| TOTL TRIHALOMETHANES (UG/L ) | | | | DET'N LIMIT = .500 | GUIDELINE = 350 (A1) | |
| JAN | BDL | 105.400 | . | 102.750 | . | 116.700 |
| FEB | BDL | 93.500 | . | 74.250 | . | 91.000 |
| MAR | BDL | 121.200 | . | 128.700 | . | 125.900 |
| APR | BDL | 121.200 | . | 132.050 | . | 133.450 |
| MAY | BDL | 189.800 | . | 178.400 | . | 199.100 |
| JUL | .900 <T | 218.100 | . | 194.500 | . | 208.250 |
| | BDL | 273.200 | . | . | . | 201.100 |
| AUG | BDL | 182.950 | . | 157.950 | . | 170.300 |
| SEP | BDL | 167.950 | . | 128.500 | . | 141.400 |
| OCT | BDL | 175.750 | . | 165.850 | . | 159.900 |
| NOV | BDL | 121.300 | . | 112.100 | . | 118.200 |
| DEC | BDL | 113.400 | . | 108.950 | . | 114.000 |

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE | |
|---|---|---|---|---|
| **BACTERIOLOGICAL** | | | | |
| FECAL COLIFORM MEMBRANE FILTRATION | CT/100ML | 0 | 0 | (A1) |
| STANDARD PLATE COUNT MEMBRANE FILTRATION | CT/ML | 0 | 500/ML | (A1) |
| TOTAL COLIFORM MEMBRANE FILTRATION | CT/100ML | 0 | 5/100mL | (A1) |
| TOTAL COLIFORM BACKGROUND MF | CT/100ML | 0 | N/A | |
| **CHLOROAROMATICS** | | | | |
| HEXACHLOROBUTADIENE | NG/L | 1.000 | 450. | (D4) |
| 1,2,3-TRICHLOROBENZENE | NG/L | 5.000 | 10000 | (I) |
| 1,2,3,4-TETRACHLOROBENZENE | NG/L | 1.000 | 10000 | (I) |
| 1,2,3,5-TETRACHLOROBENZENE | NG/L | 1.000 | 10000 | (I) |
| 1,2,4-TRICHLOROBENZENE | NG/L | 5.000 | 10000 | (I) |
| 1,2,4,5-TETRACHLOROBENZENE | NG/L | 1.000 | 38000 | (D4) |
| 1,3,5-TRICHLOROBENZENE | NG/L | 5.000 | 10000 | (D4) |
| HEXACHLOROBENZENE | NG/L | 1.0 | 10. | (C1) |
| HEXACHLOROETHANE | NG/L | 1.000 | 1900. | (D4) |
| OCTACHLOROSTYRENE | NG/L | 1.000 | N/A | |
| PENTACHLOROBENZENE | NG/L | 1.000 | 74000 | (D4) |
| 2,3,6-TRICHLOROTOLUENE | NG/L | 5.000 | N/A | |
| 2,4,5-TRICHLOROTOLUENE | NG/L | 5.000 | N/A | |
| 2,6,A-TRICHLOROTOLUENE | NG/L | 5.000 | N/A | |
| **CHLOROPHENOLS** | | | | |
| 2,3,4-TRICHLOROPHENOL | NG/L | 50. | N/A | |
| 2,3,4,5-TETRACHLOROPHENOL | NG/L | 50. | N/A | |
| 2,3,5,6-TETRACHLOROPHENOL | NG/L | 50. | N/A | |
| 2,4,5-TRICHLOROPHENOL | NG/L | 50. | 2600000 | (D4) |
| 2,4,6-TRICHLOROPHENOL | NG/L | 50. | 2000. | (B4) |
| PENTACHLOROPHENOL | NG/L | 50. | 30000. | (B4) |
| **CHEMISTRY (FLD)** | | | | |
| FIELD COMBINED CHLORINE RESIDUAL | MG/L | N/A | N/A | |
| FIELD FREE CHLORINE RESIDUAL | MG/L | N/A | N/A | |
| FIELD TOTAL CHLORINE RESIDUAL | MG/L | N/A | N/A | |
| FIELD PH | DMSNLESS | N/A | 6.5-8.5 | (A4) |
| FIELD TEMPERATURE | °C | N/A | <15 °C | (A1) |
| FIELD TURBIDITY | FTU | N/A | 1.0 | (A1) |
| **CHEMISTRY (LAB)** | | | | |
| ALKALINITY | MG/L | .200 | 30-500 | (A4) |
| CALCIUM | MG/L | .100 | 100. | (F2) |
| CYANIDE | MG/L | .001 | .20 | (A1) |
| CHLORIDE | MG/L | .200 | 250. | (A3) |
| COLOUR | TCU | .5 | 5.0 | (A3) |
| CONDUCTIVITY | UMHO/CM | 1. | 400. | (F2) |
| FLUORIDE | MG/L | .01 | 2.4 | (A1) |
| HARDNESS | MG/L | .50 | 80-100 | (A4) |
| MAGNESIUM | MG/L | .05 | 30. | (F2) |

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE |
|---|---|---|---|
| NITRITE | MG/L | .001 | 1.0 (A1) |
| TOTAL NITRATES | MG/L | .02 | 10. (A1) |
| NITROGEN TOTAL KJELDAHL | MG/L | .02 | N/A |
| PH | DMSNLESS | N/A | 6.5-8.5(A4) |
| PHOSPHORUS FIL REACT | MG/L | .0005 | N/A |
| PHOSPHORUS TOTAL | MG/L | .002 | .40(F2) |
| SULPHATE | MG/L | .200 | 500. (A3) |
| TOTAL SOLIDS | MG/L | 1. | 500. (A3) |
| TURBIDITY | FTU | .02 | 1.0 (A1) |
| **METALS** | | | |
| ALUMINUM | UG/L | .050 | 100. (A4) |
| ANTIMONY | UG/L | .050 | 10. (F3) |
| ARSENIC | UG/L | .050 | 50. (A1) |
| BARIUM | UG/L | .020 | 1000. (A1) |
| BORON | UG/L | .200 | 5000. (A1) |
| BERYLLIUM | UG/L | .010 | 0.20 (H) |
| CADMIUM | UG/L | .050 | 5.0 (A1) |
| COBALT | UG/L | .020 | 1000. (H) |
| CHROMIUM | UG/L | .100 | 50. (A1) |
| COPPER | UG/L | .100 | 1000. (A3) |
| IRON | UG/L | 5.0 | 300. (A3) |
| MERCURY | UG/L | .01 | 1.0 (A1) |
| MANGANESE | UG/L | .050 | 50. (A3) |
| MOLYBDENUM | UG/L | .020 | 500. (H) |
| NICKEL | UG/L | .100 | 50. (F3) |
| LEAD | UG/L | .020 | 50. (A1) |
| SELENIUM | UG/L | .200 | 10. (A1) |
| SILVER | UG/L | .020 | 50. (A1) |
| STRONTIUM | UG/L | .100 | 2000. (H) |
| THALLIUM | UG/L | .010 | 13. (D4) |
| TITANIUM | UG/L | .100 | N/A |
| URANIUM | UG/L | .020 | 20. (A2) |
| VANADIUM | UG/L | .020 | 100. (H) |
| ZINC | UG/L | .020 | 5000. (A3) |
| **PHENOLICS** | | | |
| PHENOLICS (UNFILTERED REACTIVE) | UG/L | .2 | 2.0 (A3) |
| **PESTICIDES & PCB** | | | |
| ALDRIN | NG/L | 1.0 | 700. (A1) |
| AMETRINE | NG/L | 50. | 300000. (D3) |
| ATRAZINE | NG/L | 50. | 60000. (B3) |
| ALPHA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 700. (G) |
| BETA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 300. (G) |
| GAMMA HEXACHLOROCYCLOHEXANE(LINDANE) | NG/L | 1.0 | 4000. (A1) |
| ALPHA CHLORDANE | NG/L | 2.0 | 7000. (A1) |
| GAMMA CHLORDANE | NG/L | 2.0 | 7000. (A1) |
| BLADEX | NG/L | 100. | 10000. (B3) |
| DIELDRIN | NG/L | 2.0 | 700. (A1) |
| METHOXYCHLOR | NG/L | 5.0 | 900000. (B1) |
| ENDOSULFAN 1 (THIODAN I) | NG/L | 2.0 | 74000. (D4) |
| ENDOSULFAN 2 (THIODAN II) | NG/L | 4.0 | 74000. (D4) |
| ENDRIN | NG/L | 4.0 | 200. (A1) |
| ENDOSULFAN SULPHATE(THIODAN SULPHATE) | NG/L | 4.0 | N/A |

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE | |
|---|---|---|---|---|
| HEPTACHLOR EPOXIDE | NG/L | 1.0 | 3000. | (A1) |
| HEPTACHLOR | NG/L | 1.0 | 3000. | (A1) |
| METOLACHLOR | NG/L | 500. | 50000. | (B3) |
| MIREX | NG/L | 5.0 | N/A | |
| OXYCHLORDANE | NG/L | 2.0 | N/A | |
| O,P-DDT | NG/L | 5.0 | 30000. | (A1) |
| PCB | NG/L | 20.0 | 3000. | (A2) |
| O,P-DDD | NG/L | 5.0 | N/A | |
| PPDDE | NG/L | 1.0 | 30000. | (A1) |
| PPDDT | NG/L | 5.0 | 30000. | (A1) |
| ATRATONE | NG/L | 50. | N/A | |
| ALACHLOR | NG/L | 500. | 35000. | (D2) |
| PROMETONE | NG/L | 50. | 52500. | (D3) |
| PROPAZINE | NG/L | 50. | 16000. | (D2) |
| PROMETRYNE | NG/L | 50. | 1000. | (B3) |
| SENCOR (METRIBUZIN) | NG/L | 100. | 80000. | (B2) |
| SIMAZINE | NG/L | 50. | 10000. | (B3) |
| **POLYAROMATIC HYDROCARBONS** | | | | |
| PHENANTHRENE | NG/L | 10.0 | N/A | |
| ANTHRACENE | NG/L | 1.0 | N/A | |
| FLUORANTHENE | NG/L | 20.0 | 42000. | (D4) |
| PYRENE | NG/L | 20.0 | N/A | |
| BENZO(A)ANTHRACENE | NG/L | 20.0 | N/A | |
| CHRYSENE | NG/L | 50.0 | N/A | |
| DIMETHYL BENZO(A)ANTHRACENE | NG/L | 5.0 | N/A | |
| BENZO(E)PYRENE | NG/L | 50.0 | N/A | |
| BENZO(B)FLUORANTHENE | NG/L | 10.0 | N/A | |
| PERYLENE | NG/L | 10.0 | N/A | |
| BENZO(K)FLUORANTHENE | NG/L | 1.0 | N/A | |
| BENZO(A)PYRENE | NG/L | 5.0 | 10. | (B1) |
| BENZO(G,H,I)PERYLENE | NG/L | 20.0 | N/A | |
| DIBENZO(A,H)ANTHRACENE | NG/L | 10.0 | N/A | |
| INDENO(1,2,3-C,D)PYRENE | NG/L | 20.0 | N/A | |
| BENZO(B)CHRYSENE | NG/L | 2.0 | N/A | |
| CORONENE | NG/L | 10.0 | N/A | |
| **SPECIFIC PESTICIDES** | | | | |
| TOXAPHENE | NG/L | N/A | 5000. | (A1) |
| 2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T) | NG/L | 50. | 200000. | (B4) |
| 2,4-DICHLOROBUTYRIC ACID (2,4-D) | NG/L | 100. | 100000. | (A1) |
| 2,4-DICHLORORPHENOXYBUTYRIC ACID | NG/L | 200. | 18000. | (B3) |
| 2,4-D PROPIONIC ACID | NG/L | 100. | N/A | |
| DICAMBA | NG/L | 100. | 120000. | (B1) |
| PICLORAM | NG/L | 100. | 190000. | (B3) |
| SILVEX (2,4,5-TP) | NG/L | 50. | 10000. | (A1) |
| DIAZINON | NG/L | 20. | 20000. | (B1) |
| DICHLOROVOS | NG/L | 20. | N/A | |
| DURSBAN | NG/L | 20. | N/A | |
| ETHION | NG/L | 20. | 35000. | (G) |
| GUTHION(AZINPHOSMETHYL) | NG/L | N/A | 20000. | (B1) |
| MALATHION | NG/L | 20. | 190000. | (B1) |
| MEVINPHOS | NG/L | 20. | N/A | |
| METHYL PARATHION | NG/L | 50. | 7000. | (A1) |
| METHYLTRITHION | NG/L | 20. | N/A | |

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE | |
|---|---|---|---|---|
| PARATHION | NG/L | 20. | 50000. | (B1) |
| PHORATE (THIMET) | NG/L | 20. | 2000. | (B3) |
| RELDAN | NG/L | 20. | N/A | |
| RONNEL | NG/L | 20. | N/A | |
| AMINOCARB | NG/L | N/A | N/A | |
| BENONYL | NG/L | N/A | N/A | |
| BUX (METALKAMATE) | NG/L | 2000. | N/A | |
| CARBOFURAN | NG/L | 2000. | 90000. | (B1) |
| CICP (CHLORPROPHAM) | NG/L | 2000. | 350000. | (G) |
| DIALLATE | NG/L | 2000. | 30000. | (H) |
| EPTAM | NG/L | 2000. | N/A | |
| IPC | NG/L | 2000. | N/A | |
| PROPOXUR (BAYGON) | NG/L | 2000. | 90000. | (G) |
| SEVIN (CARBARYL) | NG/L | 200. | 90000. | (B1) |
| SUTAN (BUTYLATE) | NG/L | 2000. | 245000. | (D3) |
| VOLATILES | | | | |
| BENZENE | UG/L | .050 | 5.0 | (B1) |
| TOLUENE | UG/L | .050 | 24.0 | (B4) |
| ETHYLBENZENE | UG/L | .050 | 2.4 | (B4) |
| PARA-XYLENE | UG/L | .100 | 300. | (B4) |
| META-XYLENE | UG/L | .100 | 300. | (B4) |
| ORTHO-XYLENE | UG/L | .050 | 300. | (B4) |
| 1,1-DICHLOROETHYLENE | UG/L | .100 | 7.0 | (D1) |
| ETHLYENE DIBROMIDE | UG/L | .05 | .05 | G) |
| METHYLENE CHLORIDE | UG/L | .500 | 50. | (B1) |
| TRANS-1,2-DICHLOROETHYLENE | UG/L | .100 | 70. | (D5) |
| 1,1-DICHLOROETHANE | UG/L | .100 | N/A | |
| CHLOROFORM | UG/L | .100 | 350. | (A1+) |
| 1,1,1-TRICHLOROETHANE | UG/L | .020 | 200. | (D1) |
| 1,2-DICHLOROETHANE | UG/L | .050 | 5.0 | (D1) |
| CARBON TETRACHLORIDE | UG/L | .200 | 5.0 | (B1) |
| 1,2-DICHLOROPROPANE | UG/L | .050 | 6.0 | (D5) |
| TRICHLOROETHYLENE | UG/L | .100 | 50. | (B1) |
| DICHLOROBROMOMETHANE | UG/L | .050 | 350. | (A1+) |
| 1,1,2-TRICHLOROETHANE | UG/L | .050 | .60 | (D4) |
| CHLORODIBROMOMETHANE | UG/L | .100 | 350. | (A1+) |
| TETRACHLOROETHYLENE | UG/L | .050 | 10.0 | (C2) |
| BROMOFORM | UG/L | .200 | 350. | (A1+) |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | .050 | 0.17 | (D4) |
| CHLOROBENZENE | UG/L | .100 | 60. | (D5) |
| 1,4-DICHLOROBENZENE | UG/L | .100 | 1.0 | (B4) |
| 1,3-DICHLOROBENZENE | UG/L | .100 | 130. | (G) |
| 1,2-DICHLOROBENZENE | UG/L | .050 | 3.0 | (B4) |
| TRIFLUOROCHLOROTOLUENE | UG/L | .100 | N/A | |
| TOTAL TRIHALOMETHANES | UG/L | .500 | 350. | (A1) |
| STYRENE | UG/L | .05 | 140. | (D5) |